

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	Abstract objects -Association & Security													
	SAP Assignment		17	0	0-0:41.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000290000FF	Get	--	--	Get					
2	SAP_assignment_list	asslist_type			{{1, *}}	Get	--	--	Get					One logical device (Management Logical Device), Server SAP 1 *: Logical Device Name
1	connect_logical_device					--	--	--	--					
	Current association		15	1	0-0:40.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000280000FF	Get	--	--	Get					
2	object_list	object_list_type			list of visible COSEM objects within the given application association	Get	--	--	Get					
3	associated_partners_id	associated_partners_type				Get	--	--	Get					
4	application_context_name	application_context_name				Get	--	--	Get					
5	xDLMS_context_info	xDLMS_context_type				Get	--	--	Get					
6	authentication_mechanism_name	mechanism_name_structure			mechanism_name (5)/GMAC/HLS	Get	--	--	Get					Optionally Set can be used to restrict the next association to a specific mechanism_name e.g. to mechnaism_name(5) after commisioning.
7	secret	octet_string				--	--	--	(Set)					Optional "Set, in case of using LLS to change the LLS PW. For HLS using GMAC secret is handled by Security setup COSEM object.
8	association_status	enum				Get	--	--	Get					
9	security_setup_reference	octet_string[6]			00002B0000FF	Get	--	--	Get					
1	reply_to_HLS_authentication					--	--	--	Action					
2	change_HLS_secret					--	--	--	Action					"Action", for changing the HLS secret in case of using MD5 or SHA-1
3	add_object					--	--	--	--					
4	remove_object					--	--	--	--					
	Security Setup (Management Client/Pre.Est.)		64	0	0-0:43.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			00002B0000FF	--	--	--	Get					
2	security_policy	enum				--	--	--	Get, Set					Meter shall support all security policies (0, 1, 2 and 3). The default security policy after installation is "3" (all messages to be authenticated and encrypted)
3	security_suite	enum			0	--	--	--	Get, Set					0 = AES-GCM-128/AES-128
4	client_system_title	octet_string[8]				--	--	--	Get					
5	server_system_title	octet_string[8]				--	--	--	Get					
1	security_activate	enum				--	--	--	Action					
2	global_key_transfer	key_data				--	--	--	Action					
	Security Setup (Reading Client)		64	0	0-0:43.0.2.255					M	M	M	M	
1	logical_name	octet_string[6]			00002B0002FF	--	--	--	Get					

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2	security_policy	enum				--	--	--	Get, Set					Meter shall support all security policies (0, 1, 2 and 3). The default security policy after installation is "3" (all messages to be authenticated and encrypted)
3	security_suite	enum			0	--	--	--	Get, Set					0 = AES-GCM-128/AES-128
4	client_system_title	octet_string[8]				--	--	--	Get					
5	server_system_title	octet_string[8]				--	--	--	Get					
1	security_activate	enum				--	--	--	Action					
2	global_key_transfer	key_data				--	--	--	Action					
	Security-Receive Frame Counter -broadcast Key		1	0	0-0:43.1.1.255					M	M	M	M	
1	logical_name	octet_string[6]			00002B0101FF	Get	--	--	Get					
2	value	double_long_unsigned				Get	--	--	Get					
	Security-Receive Frame Counter- unicast key		1	0	0-0:43.1.0.255					M	M	M	M	
1	logical_name	octet_string[6]			00002B0100FF	Get	--	--	Get					
2	value	double_long_unsigned				Get	--	--	Get					
	Security-Receive Frame Counter- unicast key (Reading Client)		1	0	0-0:43.1.2.255					M	M	M	M	
1	logical_name	octet_string[6]			00002B0102FF	Get	Get	--	Get					
2	value	double_long_unsigned				Get	Get	--	Get					
2	Abstract objects -ID's & control information													
	COSEM logical device name		1	0	0-0:42.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			00002A0000FF	Get	--	--	Get					
2	value	octet_string[16]				Get	--	--	Get					unique identification of the logical device
	Device ID 1		1	0	0-0:96.1.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600100FF	--	--	--	Get					
2	value	octet_string[8]			E-meter Serial Number (ASCII Coded): Production Serial Number	--	--	--	Get					stored during manufacturing
	Device ID 2		1	0	0-0:96.1.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600101FF	--	--	--	Get					
2	value	octet_string[0..48]			E-meter Identifier	--	--	--	Get,Set					stored during manufacturing
	Device ID 3		1	0	0-0:96.1.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600102FF	--	--	--	Get					
2	value	octet_string[0..48]			Function Location	--	--	--	Get, Set					Stored during installation
	Device ID 4		1	0	0-0:96.1.3.255					M	M	M	M	

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1	logical_name	octet_string[6]			0000600103FF	--	--	--	Get					
2	value	octet_string[0..48]			Location Information (ASCII Coded): GPS Info.	--	--	--	Get, Set					Stored during installation
	Device ID 5		1	0	0-0:96.1.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600104FF	--	--	--	Get					
2	value	octet_string[0..48]			Consumer Unique Utility Number (ASCII coded): ("RAMZ RAYANEH")	--	--	--	Get, Set					Stored during installation
	Device ID 6		1	0	0-0:96.1.5.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600105FF	--	--	--	Get					
2	value	octet_string[0..16]			Serial Number of SimCard	--	--	--	Get					
	Device ID7		1	0	1-0:0.0.0.255					M	M	M	M	
	logical_name	octet_string[6]			0100000000FF	--	Get	--	Get					
	value	octet_string[14]			Manufacturer Code + Meter/DeviceType + Production Year+ Production Serial Number	--	Get	--	Get					stored during manufacturing
	Currently Active Energy Tariff		1	0	0-0:96.14.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600E00FF	--	--	--	Get					
2	value	octet_string[0..8]				--	--	--	Get					currently active tariff = active_mask of register activation object (mask_name of the 0- 0:14.0.1.255) Empty octet string represents no tariff is active.
	Currently Active Maximum Demand Tariff		1	0	0-0:96.14.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600E01FF	--	--	--	Get					
2	value	octet_string[0..8]				--	--	--	Get					currently active tariff = active_mask of register activation object (mask_name of the 0- 0:14.0.2.255) Empty octet string represents no tariff is active.
	Default Energy Tariff in case of invalid clock		1	0	0-0:96.14.9.255					M	M	M	M	
	logical_name	octet_string[6]			0000600E09FF	--	--	--	Get					
	value	octet_string[0..8]			"R1"	--	--	Set	Get,Set					mask_name of the 0-0:14.0.1.255
	Default Max. Demand Tariff in case of invalid clock		1	0	0-0:96.14.10.255					M	M	M	M	
	logical_name	octet_string[6]			0000600E0AFF	--	--	--	Get					
	value	octet_string[0..8]			"R1"	--	--	Set	Get,Set					mask_name of the 0-0:14.0.2.255
3	Abstract objects -Time related issues													
	Clock		8	0	0-0:1.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000010000FF	--	Get	--	Get					
2	time	octet_string[12]				--	Get	Set	Get, Set					current date and time as local time, With set deviation 0X8000 and status =0XFF should be used.

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3	time_zone	long			-210	--	Get	Set	Get, Set					
4	status	unsigned				--	Get	--	Get					
5	daylights_savings_begin	octet_string[12]			FFFF0101FF020000008000FF	--	Get	Set	Get, Set					2 FARVARDIN, at 02:00
6	daylights_savings_end	octet_string[12]			FFFF061EFF020000008000FF	--	Get	Set	Get, Set					31 SHAHRIVAR, at 02:00
7	daylights_savings_deviation	integer			60	--	Get	Set	Get, Set					
8	daylights_savings_enabled	boolean			1	--	Get	Set	Get, Set					
9	clock_base	enum			1	--	Get	--	Get					internal crystal (by default)
	Local Time		1	0	1-0:0.9.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100000901FF	--	--	--	Get					
2	value	octet_string[4]				--	--	--	--					For display and readout purposes, not used for remote communication
	Local Date		1	0	1-0:0.9.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100000902FF	--	--	--	Get					
2	value	octet_string[5]				--	--	--	--					For display and readout purposes, not used for remote communication
	Clock Time Shift Limit		3	0	1-0:0.9.11.255					M	M	M	M	
1	logical_name	octet_string[6]			010000090BFF	--	--	--	Get					
2	value	unsigned			60	--	--	Set	Get, Set					Maximum allowed time shift without generating/logging "Clock Adjusted" events (event codes 4 and 5).
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Activity Calendar		20	0	0-0:13.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			00000D0000FF	--	--	--	Get					
2	calendar_name_active	octet_string[0..8]				--	--	--	Get					The calendar_name_active has a size of 8 characters at least, i.e. [0..8] is mandatory but can be longer
3	season_profile_active	array[0..6]				--	--	--	Get					
4	week_profile_table_active	array[0..8]				--	--	--	Get					
5	day_profile_table_active	array[0..8]				--	--	--	Get					
6	calendar_name_passive	octet_string[0..8]				--	--	Set	Get, Set					The calendar_name_active has a size of 8 characters at least, i.e. [0..8] is mandatory but can be longer
7	season_profile_passive	array[0..6]				--	--	Set	Get, Set					
8	week_profile_table_passive	array[0..8]				--	--	Set	Get, Set					
9	day_profile_table_passive	array[0..8]				--	--	Set	Get, Set					
10	activate_passive_calendar_time	octet_string[12]				--	--	Set	Get, Set					
1	activate_passive_calendar	integer			--	--	--	Action	Action					

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	Active Special Days Table		11	0	0-0:11.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			00000B0000FF	--	--	--	Get					
2	entries	array[0..50]				--	--	Set	Get, Set					
	Passive Special Days Table		11	0	0-0:11.0.1.255					M	M	M	M	
1	logical_name	octet_string[6]			00000B0001FF	--	--	--	Get					
2	entries	array[0..50]				--	--	Set	Get, Set					
	Register Activation- Energy		6	0	0-0:14.0.1.255					M	M	M	M	
1	logical_name	octet_string[6]			00000E0001FF	--	--	--	Get					
2	register_assignment	array[24..*]				--	--	(Set)	Get, (Set)					Array size depends on the number of registers. The required number is mandatory.
3	mask_list	array[0..*]				--	--	Set	Get, Set					
4	active_mask	octet_string[0..8]				--	--	--	Get					
	Register Activation- Maximum Demand		6	0	0-0:14.0.2.255					M	M	M	M	
1	logical_name	octet_string [6]			00000E0002FF	--	--	--	Get					
2	register_assignment	array[20..*]				--	--	(Set)	Get, (Set)					Array size depends on the number of registers. The required number according to FID2 is mandatory.
3	mask_list	array[0..*]				--	--	Set	Get, Set					
4	active_mask	octet_string [0..8]				--	--	--	Get					
	Active Tariffication Script Table		9	0	0-0:10.0.100.255					M	M	M	M	
1	logical_name	octet_string[6]			00000A0064FF	--	--	--	Get					
2	scripts	scripts			{ {1,{ {1,6,0-0:14.0.1.255,4,"RX"*}, {1,6,0-0:14.0.2.255,4,"RY"*}, {1,70,0-0:96.3.10.255,3,[1..2]} {2,70,0-0:96.3.10.255,[1,2],[0]} } }, {2,{ {1,6,0-0:14.0.1.255,4,"RX"*}, {1,6,0-0:14.0.2.255,4,"RY"*}, {1,70,0-0:96.3.10.255,3,[1..2]} {2,70,0-0:96.3.10.255,[1,2],[0]} } }, {3,{ {1,6,0-0:14.0.1.255,4,"RX"*}, {1,6,0-0:14.0.2.255,4,"RY"*}, {1,70,0-0:96.3.10.255,3,[1..2]} {2,70,0-0:96.3.10.255,[1,2],[0]} } }, {4,{ {1,6,0-0:14.0.1.255,4,"RX"*}, {1,6,0-0:14.0.2.255,4,"RY"*}, {1,70,0-0:96.3.10.255,3,[1..2]} {2,70,0-0:96.3.10.255,[1,2],[0]} } } }	--	--	Set	Get,Set					

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	Passive Tariffication Script Table		9	0	0-0:10.1.100.255					M	M	M	M	
1	logical_name	octet_string[6]			00000A0164FF	--	--	--	Get					
2	scripts	scripts			{ 1,{ {1,6,0-0:14.0.1.255,4,"RX"}, {1,6,0-0:14.0.2.255,4,"RY"}, {1,70,0-0:96.3.10.255,3,[1..2]} } }, 2,{ {1,6,0-0:14.0.1.255,4,"RX"}, {1,6,0-0:14.0.2.255,4,"RY"}, {1,70,0-0:96.3.10.255,3,[1..2]} } }, 3,{ {1,6,0-0:14.0.1.255,4,"RX"}, {1,6,0-0:14.0.2.255,4,"RY"}, {1,70,0-0:96.3.10.255,3,[1..2]} } }, 4,{ {1,6,0-0:14.0.1.255,4,"RX"}, {1,6,0-0:14.0.2.255,4,"RY"}, {1,70,0-0:96.3.10.255,3,[1..2]} } }	--	--	--	Get, Set					
4	Abstract Objects -Billing Period Reset													
	MDI Reset (Predefined Script)/ End of Billing Period		9	0	0-0:10.0.1.255					M	M	M	M	
1	logical_name	octet_string[6]			00000A0001FF	--	--	--	Get					
2	scripts	scripts				--	--	--	(Get)					
1	execute	long_unsigned			1	--	--	--	Action					
	End of Billing Period 1 (Monthly)		22	0	0-0:15.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			00000F0000FF	--	--	--	Get					
2	executed_script	script22			{0-0:10.0.1.255,1}	--	--	--	Get					
3	type	enum			1	--	--	--	Get, (Set)					Type "1" is mandatory (fixed time, wildcard in date). Other tyoe are optional
4	execution_time	array[0..1]				--	--	--	Get, Set					Any time of any day of every month. The default value is at 00:00 of the first day of month. The execution can be disabled with writing {"FFFFFFFF", "FFFFFFFF"} }
	Data of Billing Period 1 (Monthly)		7	1	0-0:98.1.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000620100FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range and entry

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3	capture_objects	array[1..*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {3,1-0:1.8.0.255,2,0}, {3,1-0:2.8.0.255,2,0}, {3,1-0:3.8.0.255,2,0}, {3,1-0:4.8.0.255,2,0}, {3,1-0:5.8.0.255,2,0}, {3,1-0:6.8.0.255,2,0}, {3,1-0:7.8.0.255,2,0}, {3,1-0:8.8.0.255,2,0}, {3,1-0:15.8.0.255,2,0}, {3,1-0:16.8.0.255,2,0}, {3,1-0:1.8.1.255,2,0}, {3,1-0:1.8.2.255,2,0}, {3,1-0:1.8.3.255,2,0}, {3,1-0:1.8.4.255,2,0}, {3,1-0:2.8.1.255,2,0}, {3,1-0:2.8.2.255,2,0}, {3,1-0:2.8.3.255,2,0}, {3,1-0:2.8.4.255,2,0}, {3,1-0:15.8.1.255,2,0}, {3,1-0:15.8.2.255,2,0}, {3,1-0:15.8.3.255,2,0}, {3,1-0:15.8.4.255,2,0}, {3,1-0:16.8.1.255,2,0}, {3,1-0:16.8.2.255,2,0}, {3,1-0:16.8.3.255,2,0}, {3,1-0:16.8.4.255,2,0},{4, 1-0:15.6.0.255,2,0}, {4, 1-0:15.6.0.255,5,0} {4,1-0:1.6.0.255,2,0}, {4,1-0:1.6.0.255,5,0}, {4,1-0:2.6.0.255,2,0}, {4,1-0:2.6.0.255,5,0}, {4,1-0:3.6.0.255,2,0}, {4,1-0:3.6.0.255,5,0}, {4,1-0:4.6.0.255,2,0}, {4,1-0:4.6.0.255,5,0},{1,0-1:24.2.1.255}, {1,0-2:24.2.1.255}, {1,0-3:24.2.1.255}, {1,0-4:24.2.1.255} }	--	Get	--	Get, Set					clock; Registers; Alarm Regsiters
4	capture_period	double_long_unsigned			0	--	Get	--	Get					
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					Unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store the values at least 13 months	--	Get	--	Get					≥ 13 months
1	reset	integer				--	--	--	Action					
5	Abstract objects -Disconnecter, Load mgmt, Supervision													
	Disconnect/Reconnect Control Scheduler		22	0	0-0:15.0.1.255					M	M	M	M	
1	logical_name	octet_string[6]			00000F0001FF	--	--	--	Get					
2	executed_script	script22			{0-0:10.0.106.255,1}/{0-0:10.0.106.255,2}/{0-0:10.0.106.255,3}/{0-0:10.0.106.255,4}	--	--	--	Get, Set					3: Disconnect script of disconnector script table (0-0:10.0.106.255) 4: Connect script of disconnector script table (0-0:10.0.106.255)
3	type	enum			1	--	--	--	Get, (Set)					Type "1" is mandatory (fixed time, wildcard in date).
4	execution_time	array[0..1]				--	--	--	Get, Set					Time of connection/disconnection. The execution can be disabled with writing {"FFFFFFFF", "FFFFFFFF"} }
	Disconnector Script Table		9	0	0-0:10.0.106.255					M	M	M	M	
1	logical_name	octet_string[6]			00000A006AFF	--	--	--	Get					
2	scripts	array[2] (script9)			{1,{{1,70,0-0:96.3.10.255,3,2}}}, //set to ready_for_reconnection {2,{{1,70,0-0:96.3.10.255,3,1}}}, //set to connected {3,{{2,70,0-0:96.3.10.255,1,0}}}, //execute remote disconnect {4,{{2,70,0-0:96.3.10.255,2,0}}}, //execute remote connect}	--	--	--	Get					1 and 2 model local disconnection and local reconnection, 3 and 4 model remote disconnection and connection
1	execute	long_unsigned				--	--	--						

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	Disconnect Control		70	0	0-0:96.3.10.255					M	M	M	M	
1	logical_name	octet_string[6]			000060030AFF	--	--	--	Get					
2	output_state	boolean				--	--	--	Get					
3	control_state	enum				--	--	--	Get					
4	control_mode	enum			0	--	--	--	Get, Set					Meter shall support all modes (0 to 6). The default mode is 0.
1	remote_disconnect	integer				--	--	--	Action					
2	remote_connect	integer				--	--	--	Action					
	Event Object -Disconnecter Control log		1	0	0-0:96.11.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B02FF	--	--	--	Get					
2	value	enum				--	--	--	Get					Event number (0 to 255). At first power up or if no events were yet generated the value should return 255.
	Disconnecter Control Log		7	1	0-0:99.98.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0000636202FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					Selective access per range is mandatory
3	capture_objects	array[2..3](capture_object_definition)			{{8, 0-0:1.0.0.255, 2, 0}, {1, 0-0:96.11.2.255, 2, 0}, {71, 0-0:17.0.0.255, 3, 0}}	--	Get	--	Get, (Set)					Clock; Event Code; Active Threshold Value of Limiter
4	capture_period	double_long_unsigned			0	--	Get	--	Get					asynchronously
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					Unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			[100..*]	--	Get	--	Get					
1	reset	integer				--	--	--	Action					
	Limiter		71	0	0-0:17.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000110000FF	--	--	--	Get					
2	monitored_value	value_definition			3P Meter: choice({5,1-0:1.24.0.255, 2}, {5,1-0:16.24.0.255, 2}, {5,1-0:15.24.0.255, 2}) 1P Meter: {5,1-0:31.4.0.255,2}	--	--	--	Get, Set					3P Meter: Average import power (+A), Average Net Power (+A - -A), Average Total Power (+A + -A), 1P Meter: Sliding Average Current
3	threshold_active	threshold				--	--	--	Get					
4	threshold_normal	threshold				--	--	--	Get, Set					
5	threshold_emergency	threshold				--	--	--	Get, Set					
6	min_over_threshold_duration	double_long_unsigned			180	--	--	--	Get, Set					
7	min_under_threshold_duration	double_long_unsigned			180	--	--	--	Get, Set					T1 and T2 in reclosing procedure

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
8	emergency_profile	emergency_profile_type				--	--	--	Get, Set					
9	emergency_profile_group_id_list	array				--	--	--	Get, Set					
10	emergency_profile_active	boolean				--	--	--	Get					
11	actions	action_set			{{0-0:10.0.106.255,1} , {0-0:10.0.106.255,2}}	--	--	--	Get, Set					Over Threshold: Set Ready for Reconnection Under Threshold: Set Connected
	Reclosing Configuration		1	0	0-0:94.98.28.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E621CFF	--	--	--	Get					
2	value	structure { Number of Reclosing (Normal) unsigned Middle Timeout/Norm. (minutes) long_unsigned Final state (normal) enum Number of Reclosing Number (Emg.) unsigned Middle Timeout /Emg.(minutes) long_unsigned Final state (Emg.) enum End Timeout (minutes) long_unsigned }			structure { 3 times 60 min 0 (Connected) 3 times 60 min 1 (Disconnected) 180 minutes }	--	--	--	Get, Set					n1 T3 Normal Final state n2 T4 Emg. Final state T5 T1 and T2 is set via attribute "min_under_threshold_duration" of COSEM object "Limiter" (71, 0-0:17.0.0.255)
	Limiter Threshold Scheduler		22	0	0-0:94.98.18.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E6212FF	--	--	--	Get					
2	executed_script	script22			{0-0:94.98.25.255, [1/2]}	--	--	--	Get, Set					1: Assigning Normal Threshold Value 2: Assigning Emg. Threshold
3	type	enum			1	--	--	--	Get, (Set)					Type "1" is mandatory (fixed time, wildcard in date).
4	execution_time	array[0..1](execution_time_date)				--	--	--	Get, Set					The schedule can be disabled with writing {{"FFFFFFFF", "FFFFFFFFF"}}
	Limiter Script Table		9	0	0-0:94.98.25.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E6219FF	--	--	--	Get					
2	scripts	array[2](script9)			{1,{1,71,0-0:17.0.0.255,4,param.}}, //param.:normal threshold value {2,{1,71,0-0:17.0.0.255,5,param.}}, //param.: emg. threshold value	--	--	--	Get, Set					1: Assigning Normal Threshold Value 2: Assigning Emg. Threshold
1	execute	long_unsigned				--	--	--	Action					
	Fuse Supervision L1		21	0	1-0:31.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01001F0400FF	--	--	--	Get					
2	thresholds	array[1]				--	--	--	Get, Set					
3	monitored_value	value_definition			{5,1-0:31.4.0.255,2}	--	--	--	Get, Set					Instantaneous value current per phase or average current for supervision
4	actions	array[1](action_set)				--	--	--	Get, Set					Meter shall be able to support real actions (e.g. calling disconnector scripts and so on). The default value is generating event. Event Code 70: Threshold exceeded Event Code 71: monitored value dropped below the threshold

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Fuse Supervision L2		21	0	1-0:51.4.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100330400FF	--	--	--	Get					
2	thresholds	array[1]				--	--	--	Get, Set					
3	monitored_value	value_definition			{5,1-0:51.4.0.255,2}	--	--	--	Get					Sliding Average current L2
4	actions	array[1](action_set)				--	--	--	Get, Set					Meter shall be able to support real actions (e.g. calling disconnector scripts and so on). The default value is generating event. Event Code 72: Threshold exceeded Event Code 73: monitored value dropped below the threshold
	Fuse Supervision L3		21	0	1-0:71.4.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100470400FF	--	--	--	Get					
2	thresholds	array[1]				--	--	--	Get, Set					
3	monitored_value	value_definition			{5,1-0:71.4.0.255,2}	--	--	--	Get					Sliding Average current L3
4	actions	array[1](action_set)				--	--	--	Get, Set					Meter shall be able to support real actions (e.g. calling disconnector scripts and so on). The default value is generating event. Event Code 74: Threshold exceeded Event Code 75: monitored value dropped below the threshold
6	Abstract objects -Errors & Alarms, Event logs													
	Error Register		1	0	0-0:97.97.0.255					O	O	O	O	
1	logical_name	octet_string[6]			0000616100FF	--	Get	--	Get					
2	value	double_long_unsigned				--	Get	--	Get, Set					
	Unread_Log_Files_Status_Register		1	0	0-0:94.98.26.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E621AFF	--	Get	--	Get					
2	value	long_unsigned				--	Get	--	Get					
	Alarm Register 1		1	0	0-0:97.98.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000616200FF	--	Get	--	Get					
2	value	double_long_unsigned				--	Get	--	Get, Set					
	Alarm Filter 1		1	0	0-0:97.98.10.255					M	M	M	M	
1	logical_name	octet_string[6]			000061620AFF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get, Set					
	Alarm Descriptor 1		1	0	0-0:97.98.20.255					M	M	M	M	
1	logical_name	octet_string[6]			0000616214FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get, Set					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Alarm Monitor 1		21	0	0-0:16.1.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000100100FF	--	--	--	Get					
2	thresholds	array[1](double_long_unsigned)			{0}	--	--	--	Get					Monitored value is Alarm descriptor 1. Value 0 in threshold means if any of the bits in monitor value is newly triggered the action of the monitor will be set.
3	monitored_value	value_definition			{1, 0-0:97.98.20.255, 2}	--	--	--	Get					
4	actions	array[1](action_set)			{{{0-0:10.0.108.255,4} , {0-0:10.0.108.255,0}}}	--	--	--	Get, Set					triggers push on alarm in case of occurrence, no action is triggered in case the alarm descriptor is cleared.
	Alarm Register 2		1	0	0-0:97.98.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000616201FF	--	Get	--	Get					
2	value	double_long_unsigned				--	Get	--	Get, Set					
	Alarm Filter 2		1	0	0-0:97.98.11.255					M	M	M	M	
1	logical_name	octet_string[6]			000061620BFF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get, Set					This filter defines, if an event is handled as an alarm when it appears
	Alarm Descriptor 2		1	0	0-0:97.98.21.255					M	M	M	M	
1	logical_name	octet_string[6]			0000616215FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get, Set					
	Alarm Monitor 2		21	0	0-0:16.1.1.255					NA	M-D	M-D	M-D	
1	logical_name	octet_string[6]			0000100101FF	--	--	--	Get					
2	thresholds	array[1](double_long_unsigned)			{0}	--	--	--	Get					Monitored value is Alarm descriptor 1. Value 0 in threshold means if any of the bits in monitor value is newly triggered the action of the monitor will be set.
3	monitored_value	value_definition			{1, 0-0:97.98.21.255, 2}	--	--	--	Get					
4	actions	array[1](action_set)			{{{0-0:10.0.108.255,4} , {0-0:10.0.108.255,0}}}	--	--	--	Get, Set					triggers push on alarm in case of occurrence, no action is triggered in case the alarm descriptor is cleared. Details are presented in FID2.
	Event Object -Standard Event Log		1	0	0-0:96.11.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B00FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Event Parameter-Standard event log		1	0	0-0:96.11.10.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B0AFF	--	--	--	Get					
2	value	enum				--	--	--	Get					
	Standard Event Log		7	1	0-0:99.98.0.255					M	M	M	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0000636200FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range
3	capture_objects	array[3]			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.11.0.255,2,0} {1,0-0:96.11.10.255,2,0}}	--	Get	--	Get, Set					Clock, Event Code, Event Parameter (Sub-events)
4	capture_period	double_long_unsigned			0	--	Get	--	Get					asynchronously
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					Unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			[100..*]	--	Get	--	Get					
1	reset	integer				--	--	--	Action					
	Event Object -Fraud Detection Log		1	0	0-0:96.11.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B01FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Fraud Detection Log		7	1	0-0:99.98.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000636201FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range
3	capture_objects	array[2](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.1.255,2,0}}	--	Get	--	Get, Set					Clock, Fraud (Security) Event Code
4	capture_period	double_long_unsigned			0	--	Get	--	Get					asynchronously
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					Unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			[100..*]	--	Get	--	Get					
1	reset	integer				--	--	--	Action					
	Event Object - Communication Log		1	0	0-0:96.11.5.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B05FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Communication Log		7	1	0-0:99.98.5.255					M	M	M	M	
1	logical_name	octet_string[6]			0000636205FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range
3	capture_objects	array[2](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.5.255,2,0}}	--	Get	--	Get, Set					Clock, Communication Event Code
4	capture_period	double_long_unsigned			0	--	Get	--	Get					asynchronously

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			[100..*]	--	Get	--	Get					
1	reset	integer				--	--	--	Action					
7	Abstract objects -User interface													
	Consumer Message Text		1	0	0-0:96.13.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600D00FF	--	--	--	Get					
2	value	octet_string[0..1024]			--	--	--	Set	Get, Set					
	Consumer Message Code		1	0	0-0:96.13.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600D01FF	--	--	--	Get					
2	value	octet_string[0..64]				--	--	Set	Get, Set					Message code to be shown on numeric display.
	Push action scheduler - Consumer Information		22	0	0-4:15.0.4.255					o	o	o	o	
1	logical_name	octet_string[6]			00040F0004FF	--	--	--	Get					
2	executed_script	script22			{0-0:10.0.108.255,7}	--	--	--	Get,set					
3	type	enum			5	--	--	--	Get, (Set)					n=4
4	execution_time	array[0..*](execution_time_date)			{ {"FFFF0000" , "FFFFFFFF"}, {"FFFF0F00" , "FFFFFFFF"}, {"FFFF1E00" , "FFFFFFFF"}, {"FFFF2D00" , "FFFFFFFF"}, }	--	--	--	Get, Set					By default push every 15 seconds
	Push setup - Consumer Information		40	0	0-6:25.9.0.255					o	o	o	o	
1	logical_name	octet_string[6]			0006190900FF	--	--	--	Get					
2	push_object_list	array[0..*](capture_object_definition)				--	--	--	Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{*,*,0}	--	--	--	Get, Set					*: transport type and destination depends on IHD interface
4	communication_window	array[0..*](window_element)				--	--	--	Get, Set					
5	randomisation_start_interval	long_unsigned			0	--	--	--	Get, Set					Randomization time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned				--	--	--	Get, Set					Max number of repetitions of unsuccessful push
7	repetition_delay	long_unsigned							Get, Set					Delay in seconds between repetitions
2	push	integer				--	--	Action	Action					
	Security setup - Consumer Information		64	0	0-0:43.0.1.255					o	o	o	o	
1	logical_name	octet_string[6]			00002B0001FF	--	--	--	Get					
2	security_policy	enum			3	--	--	--	Get, Set					All messages to be authenticated and encrypted
3	security_suite	enum			0	--	--	--	Get, Set					0 = AES-GCM-128/AES-128

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
4	client_system_title	octet_string[8]				--	--	--	Get					
5	server_system_title	octet_string[8]				--	--	--	Get					
1	security_activate	enum				--	--	--	Action					
2	global_key_transfer	key_data				--	--	--	Action					
8	Abstract objects -Firmware Upgrade													
	Image transfer		18	0	0-0:44.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			00002C0000FF	--	--	--	Get					
2	image_block_size	double_long_unsigned				--	--	--	Get					block size in bytes
3	image_transferred_block_status	bit_string				--	--	--	Get					The length of string is same as the number of image blocks. Each bit provides info about one individual image block as follow: 0 = not transferred 1 = transferred
4	image_first not_transferred_block_number	double_long_unsigned				--	--	--	Get					Provides block number of the first missing block
5	image_transfer_enabled	boolean				--	--	--	Get, Set					Enabled or not; detail information in image_transfer_status FALSE = disabled TRUE = enabled
6	image_transfer status	enum				--	--	--	Get					Detailed status of image transfer process 0 = transfer not initiated (not active; default state) 1 = transfer initiated 2 = verification initiated 3 = verification successful 4 = verification failed 5 = activation initiated 6 = activation successful 7 = activation failed
7	image_to_activate_info	array				--	--	--	Get					
1	image_transfer_initiate	structure			--	--	--	--	Action					initiates the transfer process; includes data in format { image_identifier image_size }
2	image_block_transfer	structure				--	--	Action	Action					transfers one single block; includes data in format { image_block_number image_block_value }
3	image_verify	integer				--	--	--	Action					verifies the integrity before activation; result can be (0) success, if the verification could be completed; (2) temporary-failure if the verification has not been completed; (250) other-reason if the verification failed.
4	image_activate	integer				--	--	--	Action					activates the transferred and verified image; result can be (0) success, if the verification could be completed; (2) temporary-failure if the verification has not been completed; (250) other-reason if the verification failed.
	Image Transfer Activation Scheduler		22	0	0-0:15.0.2.255					M	M	M	M	
1	logical_name	octet_string[6]			00000F0002FF	--	--	--	Get					
2	executed_script	script22			{0-0:10.0.107.255,1}	--	--	--	Get, (Set)					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	type	enum			1	--	--	--	Get, (Set)					Type "1" is mandatory (fixed time, wildcard in date).
4	execution_time	array[0..1](execution_time_date)				--	--	--	Get, Set					Immediate activation will be done when a non-valid date and time is written to the execution_time. The execution can be disabled with writing {"FFFFFFFF", "FFFFFFFFFFFF"}. In this case, the firmware should be activated "on-demand" by central system.
	Predefined Scripts -Image activation		9	0	0-0:10.0.107.255					M	M	M	M	
1	logical_name	octet_string[6]			00000A006BFF	--	--	--	Get					
2	scripts	scripts				--	--	--	(Get)					
1	execute	long_unsigned			1	--	--	--	Action					The activation of this scripts is performed by calling the execute() method to the scriptidentifier 1.
	Active firmware Identifier		1	0	1-0:0.2.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100000200FF	--	--	--	Get					
2	value	octet_string				--	--	--	Get					Metrology Part Firmware
	Active firmware signature		1	0	1-0:0.2.8.255					M	M	M	M	
1	logical_name	octet_string[6]			0100000208FF	--	--	--	Get					
2	value	octet_string				--	--	--	Get					
	Active firmware Identifier 1		1	0	1-1:0.2.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0101000200FF	--	--	--	Get					
2	value	octet_string				--	--	--	Get					Meter Application Relevant Firmware
	Active firmware signature 1		1	0	1-1:0.2.8.255					M	M	M	M	
1	logical_name	octet_string[6]			0101000208FF	--	--	--	Get					
2	value	octet_string				--	--	--	Get					
	Active firmware Identifier 2		1	0	1-2:0.2.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0102000200FF	--	--	--	Get					
2	value	octet_string				--	--	--	Get					GPRS Communication Module Firmware
	Active firmware signature 2		1	0	1-2:0.2.8.255					M	M	M	M	
1	logical_name	octet_string[6]			0102000208FF	--	--	--	Get					
2	value	octet_string				--	--	--	Get					
9	Electricity Related Objects -Totals													

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Active energy import (+A)		3	0	1-0:1.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy export (-A)		3	0	1-0:2.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy (+A + -A) Combined total		3	0	1-0:15.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy (+A - -A) Net total		3	0	1-0:16.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100100800FF	--	--	--	Get					
2	value	double_long				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Reactive energy QI (+Ri)		3	0	1-0:5.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100050800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy QII (+Rc)		3	0	1-0:6.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100060800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy QIII (-Ri)		3	0	1-0:7.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100070800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy QIV (-Rc)		3	0	1-0:8.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100080800FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy import (+R)(QI+QII)		3	0	1-0:3.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy export (-R)(QIII+QIV)		3	0	1-0:4.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Apparent energy import (+VA)(QI+QIV)		3	0	1-0:9.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100090800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,31} for CT/PT, other types {0,31}	--	--	--	Get					
	Apparent energy export (-VA)(QII+QIII)		3	0	1-0:10.8.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000A0800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,31} for CT/PT, other types {0,31}	--	--	--	Get					
	Ampere-hours in absence of voltage L1		3	0	1-0:31.8.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01001F0800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,57}	--	--	--	Get					
	Ampere-hours in absence of voltage L2		3	0	1-0:51.8.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100330800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,57}	--	--	--	Get					
	Ampere-hours in absence of voltage L3		3	0	1-0:71.8.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100470800FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,57}	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
10	Electricity Related Objects -Intervals													
	Active energy import (+A) (interval)		3	0	1-0:1.29.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100011D00FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy Export (-A) (interval)		3	0	1-0:2.29.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100021D00FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Reactive energy import (+R)(QI+QII) (interval)		3	0	1-0:3.29.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100031D00FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy export (-R)(QIII+QIV) (interval)		3	0	1-0:4.29.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100041D00FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
11	Electricity Related Objects -Rated Registers													
	Active energy import (+A) rate 1		3	0	1-0:1.8.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010801FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy import (+A) rate 2		3	0	1-0:1.8.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010802FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy import (+A) rate 3		3	0	1-0:1.8.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010803FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy import (+A) rate 4		3	0	1-0:1.8.4.255					M	M	M	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0100010804FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy export (-A) rate 1		3	0	1-0:2.8.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020801FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy export (-A) rate 2		3	0	1-0:2.8.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020802FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy export (-A) rate 3		3	0	1-0:2.8.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020803FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy export (-A) rate 4		3	0	1-0:2.8.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020804FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Reactive energy (+R) rate 1		3	0	1-0:3.8.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030801FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy (+R) rate 2		3	0	1-0:3.8.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030802FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy (+R) rate 3		3	0	1-0:3.8.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030803FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1p	3p-DC	3p-CT	3p-CTPT	Remarks
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy (+R) rate 4		3	0	1-0:3.8.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030804FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy (-R) rate 1		3	0	1-0:4.8.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040801FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy (-R) rate 2		3	0	1-0:4.8.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040802FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy (-R) rate 3		3	0	1-0:4.8.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040803FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Reactive energy (-R) rate 4		3	0	1-0:4.8.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040804FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}	--	--	--	Get					
	Active energy Combined total (+A + -A) rate 1		3	0	1-0:15.8.1.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0801FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy Combined total (+A + -A) rate2		3	0	1-0:15.8.2.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0802FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Active energy Combined total (+A + -A) rate 3		3	0	1-0:15.8.3.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0803FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy Combined total (+A + -A) rate 4		3	0	1-0:15.8.4.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0804FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy net total (+A - -A) rate 1		3	0	1-0:16.8.1.255									
1	logical_name	octet_string[6]			0100100801FF	--	--	--	Get					
2	value	double_long				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy net total (+A - -A) rate 2		3	0	1-0:16.8.2.255									
1	logical_name	octet_string[6]			0100100802FF	--	--	--	Get					
2	value	double_long				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy net total (+A - -A) rate 3		3	0	1-0:16.8.3.255									
1	logical_name	octet_string[6]			0100100803FF	--	--	--	Get					
2	value	double_long				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
	Active energy net total (+A - -A) rate 4		3	0	1-0:16.8.4.255									
1	logical_name	octet_string[6]			0100100804FF	--	--	--	Get					
2	value	double_long				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}	--	--	--	Get					
12	Electricity related objects -Demand													
	Demand Register 1 -Active energy import (+A)		5	0	1-0:1.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					Att. 3 is captured in Load Profile 1
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
5	status	unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get, Set					Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					Changing number_of_periods of one instance will change number_of_periods of all instances automatically
	Demand Register 2 -Active energy export (-A)		5	0	1-0:2.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					Att. 3 is captured in Load Profile 1
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get, Set					Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					Changing number_of_periods of one instance will change number_of_periods of all instances automatically
	Demand Register 3 -Reactive energy import (+R)		5	0	1-0:3.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get, Set					Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					Changing number_of_periods of one instance will change number_of_periods of all instances automatically
	Demand Register 4 -Reactive energy export (-R)		5	0	1-0:4.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get, Set					Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					Changing number_of_periods of one instance will change number_of_periods of all instances automatically
	Demand Register 5-Active energy Combined total (+A + -A)		5	0	1-0:15.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					Att. 3 is captured in Load Profile 1
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get, Set					Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					Changing number_of_periods of one instance will change number_of_periods of all instances automatically
13	Electricity related objects -Maximum Demand													
	Maximum Demand Register 1 -Active energy import (+A)		4	0	1-0:1.6.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010600FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 2 -Active energy import (+A) - rate 1		4	0	1-0:1.6.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010601FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Maximum Demand Register 3 -Active energy import (+A) - rate 2		4	0	1-0:1.6.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010602FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 4 -Active energy import (+A) - rate 3		4	0	1-0:1.6.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010603FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 5 -Active energy import (+A) - rate 4		4	0	1-0:1.6.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010604FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer			--	--	--	--	Action					
	Maximum Demand Register 6 -Active energy export (-A)		4	0	1-0:2.6.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020600FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 7 -Active energy export (-A) - rate 1		4	0	1-0:2.6.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020601FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 8 -Active energy export (–A) - rate 2		4	0	1-0:2.6.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020602FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 9 -Active energy export (–A) - rate 3		4	0	1-0:2.6.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020603FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 10 -Active energy export (–A) - rate 4		4	0	1-0:2.6.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020604FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 11 -Reactive energy import (+R)		4	0	1-0:3.6.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030600FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 12 -Reactive energy import (+R) -rate 1		4	0	1-0:3.6.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030601FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 13 -Reactive energy import (+R) -rate 2		4	0	1-0:3.6.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030602FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 14 -Reactive energy import (+R) -rate 3		4	0	1-0:3.6.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030603FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 15 -Reactive energy import (+R) -rate 4		4	0	1-0:3.6.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030604FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 16 -Reactive energy export (-R)		4	0	1-0:4.6.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040600FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 17 -Reactive energy export (-R) -rate 1		4	0	1-0:4.6.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040601FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 18 -Reactive energy export (-R) -rate 2		4	0	1-0:4.6.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040602FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 19 -Reactive energy export (-R) -rate 3		4	0	1-0:4.6.3.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040603FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 20 -Reactive energy export (-R) -rate 4		4	0	1-0:4.6.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040604FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 31 -Active energy Combined (+A + -A)		4	0	1-0:15.6.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0600FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 32 -Active energy Combined (+A + -A) -rate 1		4	0	1-0:15.6.1.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0601FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 33 -Active energy Combined (+A + -A) -rate 2		4	0	1-0:15.6.2.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0602FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 34 -Active energy Combined (+A + -A) -rate 3		4	0	1-0:15.6.3.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0603FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 35 -Active energy Combined (+A + -A) -rate 4		4	0	1-0:15.6.4.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0604FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub (16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 36 -Active energy Combined (+A + -A) (recording interval 2)		4	0	1-0:15.54.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F3600FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
	Maximum Demand Register 37 -Active energy imort total (+A) (recording interval 2)		4	0	1-0:1.54.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F3600FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					
1	reset	integer				--	--	--	Action					
14	Electricity related objects -Profiles													
	Profile Status 1 (Load profile with period 1)		1	0	0-0:96.10.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600A01FF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	Load profile 1 (hourly)		7	1	1-0:99.1.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100630100FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range (entry is optional)
3	capture_objects	array[2..*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.1.255,2,0},{3,1-0:1.29.0.255,2,0}, {3,1-0:2.29.0.255,2,0},{3,1-0:3.29.0.255,2,0},{3,1-0:4.29.0.255,2,0}, {5, 1-0:15.4.0.255}}	--	Get	--	Get, Set					Clock, Profile Status, Regsitors,
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s)	--	Get	--	Get, Set					Default=900
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days	--	Get	--	Get					
1	reset					--	--	--	Action					
	Profile Status 2 (Load profile with period 2/Daily)		1	0	0-0:96.10.2.255					M	M	M	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0000600A02FF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	Load profile 2 (Daily)		7	1	1-0:99.2.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100630200FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range (entry is optional)
3	capture_objects	array[2..*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.2.255,2,0},{3,1-0:1.8.0.255,2,0}, {3,1-0:2.8.0.255,2,0},{3,1-0:3.8.0.255,2,0},{3,1-0:4.8.0.255,2,0}, {3,1-0:15.8.0.255,2,0}, {3,1-0:16.8.0.255,2,0}, {3,1-0:1.8.1.255,2,0}, {3,1-0:1.8.2.255,2,0}, {3,1-0:1.8.3.255,2,0}, {3,1-0:1.8.4.255}, {3,1-0:2.8.1.255}, {3,1-0:2.8.2.255,2,0}, {3,1-0:2.8.3.255,2,0}, {3,1-0:2.8.4.255,2,0}, {3,1-0:3.8.1.255,2,0}, {3,1-0:3.8.2.255,2,0}, {3,1-0:3.8.3.255,2,0}, {3,1-0:3.8.4.255,2,0}, {3,1-0:4.8.1.255,2,0}, {3,1-0:4.8.2.255,2,0}, {3,1-0:4.8.3.255,2,0}, {3,1-0:4.8.4.255,2,0}, {3,1-0:15.8.1.255,2,0}, {3,1-0:15.8.2.255,2,0}, {3,1-0:15.8.3.255,2,0}, {3,1-0:15.8.4.255,2,0}, {3,1-0:16.8.1.255,2,0}, {3,1-0:16.8.2.255,2,0}, {3,1-0:16.8.3.255,2,0}, {3,1-0:16.8.4.255,2,0}, {3,1-0:1.8.0.255,2,0}, {4,1-0:15.54.0.255, 2,0}, {4,1-0:15.54.0.255, 5,0}, {4,1-0:1.54.0.255, 2,0}, {4,1-0:1.54.0.255, 5,0}, {1,0-0:97.97.0.255,2,0}, {1,0-0:97.98.0.255,2,0}, {1,0-0:97.98.1.255,2,0}, }	--	Get	--	Get, Set					Clock, Profile Status, Regsitors,
4	capture_period	double_long_unsigned			86400	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days	--	Get	--	Get					
1	reset					--	--	--	Action					
	Profile Status 3 (Harmonic Values)		1	0	0-0:96.10.9.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0000600A09FF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	Profile Status 4 (Avg., Min., Max.)		1	0	0-0:96.10.10.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600A0AFF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	Average Value Profile		7	1	1-0:99.133.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100638500FF	--	Get	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	buffer	array				--	Get	--	Get					selective access per range (entry is optional)
3	capture_objects	array[2..*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.10.255,2,0},{3,1-0:32.25.0.255,2,0}, {3,1-0:52.25.0.255,2,0},{3,1-0:72.25.0.255,2,0},{3,1-0:31.25.0.255,2,0}, {3,1-0:51.25.0.255,2,0}, {3,1-0:71.25.0.255,2,0}, {3,1-0:33.25.0.255,2,0}, {3,1-0:53.25.0.255,2,0}, {3,1-0:73.25.0.255,2,0}, {3, 1-0: 13.25.0.255,2,0}, {3,1-0:1.25.0.255,2,0}, {3,1-0:2.25.0.255,2,0}, {3,1-0:3.25.0.255,2,0}, {3,1-0:4.25.0.255,2,0}}	--	Get	--	Get, Set				Clock, Profile Status, Regsitors,	
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days	--	Get	--	Get					
1	reset					--	--	--	Action					
	Max.Values Profile		7	1	1-0:99.134.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100638600FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range (entry is optional)
3	capture_objects	array[2..*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.10.255,2,0},{3,1-0:32.226.0.255,2,0}, {3,1-0:52.226.0.255,2,0},{3,1-0:72.226.0.255,2,0},{3,1-0:31.226.0.255,2,0}, {3,1-0:51.226.0.255,2,0}, {3,1-0:71.226.0.255,2,0}, {3,1-0:33.226.0.255,2,0}, {3,1-0:53.226.0.255,2,0}, {3,1-0:73.226.0.255,2,0}, {3, 1-0: 13.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:2.226.0.255,2,0}, {3,1-0:3.226.0.255,2,0}, {3,1-0:4.226.0.255,2,0}}	--	Get	--	Get, Set				Clock, Profile Status, Regsitors,	
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days	--	Get	--	Get					
1	reset					--	--	--	Action					
	Min. Values Profile		7	1	1-0:99.135.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100638700FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range (entry is optional)
3	capture_objects	array[2..*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.10.255,2,0},{3,1-0:32.223.0.255,2,0}, {3,1-0:52.223.0.255,2,0},{3,1-0:72.223.0.255,2,0},{3,1-0:31.223.0.255,2,0}, {3,1-0:51.223.0.255,2,0}, {3,1-0:71.223.0.255,2,0}, {3,1-0:33.223.0.255,2,0}, {3,1-0:53.223.0.255,2,0}, {3,1-0:73.223.0.255,2,0}, {3, 1-0: 13.223.0.255,2,0}, {3,1-0:1.223.0.255,2,0}, {3,1-0:2.223.0.255,2,0}, {3,1-0:3.223.0.255,2,0}, {3,1-0:4.223.0.255,2,0}}	--	Get	--	Get, Set				Clock, Profile Status, Regsitors,	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days	--	Get	--	Get					
1	reset					--	--	--	Action					
	Harmonics Profile		7	1	1-0:99.136.0.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100638800FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range (entry is optional)
3	capture_objects	array[2..*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.9.255,2,0},{3,1-0:32.24.3.255,2,0}, {3,1-0:52.24.3.255,2,0},{3,1-0:72.24.3.255,2,0}, {3,1-0:52.24.5.255,2,0},{3,1-0:72.24.5.255,2,0}, {3,1-0:32.24.7.255,2,0}, {3,1-0:52.24.7.255,2,0},{3,1-0:72.24.7.255,2,0}, {3,1-0:32.24.9.255,2,0}, {3,1-0:52.24.9.255,2,0},{3,1-0:72.24.9.255,2,0}, {3,1-0:52.24.11.255,2,0}, {3,1-0:52.24.11.255,2,0},{3,1-0:72.24.11.255,2,0}, {3,1-0:32.24.13.255,2,0}, {3,1-0:52.24.13.255,2,0},{3,1-0:72.24.13.255,2,0}, {3,1-0:32.24.124.255,2,0}, {3,1-0:52.24.124.255,2,0},{3,1-0:72.24.124.255,2,0}, {3,1-0:31.24.3.255,2,0}, {3,1-0:51.24.3.255,2,0},{3,1-0:71.24.3.255,2,0}, {3,1-0:31.24.5.255,2,0}, {3,1-0:51.24.5.255,2,0},{3,1-0:71.24.5.255,2,0}, {3,1-0:31.24.7.255,2,0}, {3,1-0:51.24.7.255,2,0},{3,1-0:71.24.7.255,2,0}, {3,1-0:31.24.9.255,2,0}, {3,1-0:51.24.9.255,2,0},{3,1-0:71.24.9.255,2,0}, {3,1-0:31.24.11.255,2,0}, {3,1-0:51.24.11.255,2,0},{3,1-0:71.24.11.255,2,0}, {3,1-0:31.24.13.255,2,0}, {3,1-0:51.24.13.255,2,0},{3,1-0:71.24.13.255,2,0}, {3,1-0:31.24.124.255,2,0}, {3,1-0:51.24.124.255,2,0},{3,1-0:71.24.124.255,2,0}}	--	Get	--	Get, Set					Clock, Profile Status, Regsitors,
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days	--	Get	--	Get					
1	reset					--	--	--	Action					
	Instantaneous Energy Values		7	1	0-0:21.0.6.255					M	M	M	M	
1	logical_name	octet_string[6]			0000150006FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	capture_objects	array[*..50]			{8,0-0:1.0.0.255,2,0}; Clock {1,0-0:96.1.0.255,2,0}; Device ID1, manufacturing number {1,1-0:0.0.0.255,2,0}; Tavanir Definition (Utility Device ID) {3,1-0:1.8.X.255,2,0}; Active energy import (+A) X=0,1,2,3,4; {3,1-0:2.8.X.255,2,0}; Active energy export (-A) X=0,1,2,3,4; {3,1-0:3.8.0.255,2,0}; Reactive energy import (+R)(QI+QII) {3,1-0:4.8.0.255,2,0}; Reactive energy export (-R)(QIII+QIV) {3,1-0:5.8.0.255,2,0}; Reactive energy QI (+Ri) {3,1-0:6.8.0.255,2,0}; Reactive energy QII (+Rc) {3,1-0:7.8.0.255,2,0}; Reactive energy QIII (-Ri) {3,1-0:8.8.0.255,2,0}; Reactive energy QIV (-Rc) {3,1-0:9.8.0.255,2,0}; Apparent energy import (+VA)(QI+QIV) {3,1-0:10.8.0.255,2,0}; Apparent energy export (-VA)(QII+QIII) {3,1-0:15.8.X.255,2,0}; Active energy Combined total (+A + -A) X=0,1,2,3,4; {3,1-0:16.8.X.255,2,0}; Active energy net total (+A - -A) X=0,1,2,3,4; {3,1-0:X.8.0.255,2,0}; Ampere-hours L1,L2,L3 X=31,51,71	--	Get	--	Get, Set					For single-phase meters, only one phase is active, so values connected with other phases (L2 and L3) have to be zero.
4	capture_period	double_long_unsigned			0	--	Get	--	Get					
5	sort_method	enum			1	--	Get	--	Get					
6	sort_object	capture_object_definition			none	--	Get	--	Get					
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			1	--	Get	--	Get					
1	reset					--	--	--	Action					
	Power Quality Instantaneous Values		7	1	0-0:21.0.5.255					M	M	M	M	
1	logical_name	octet_string[6]			0000150005FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1p	3p-DC	3p-CT	3p-CTPT	Remarks
3	capture_objects	array[*..50]			{8,0-0:1.0.0.255,2}; Clock {1,0-0:96.1.0.255,2,0};Device ID1,manufacturing number {1,1-0:0.0.0.255,2,0};Tavanir Definition (Utility Device ID) {3,1-0:X.7.0.255,2}; Voltage L1,L2,L3 X=32,52,72; {3,1-0:X.7.0.255,2}; Current L1,L2,L3 X=31,51,71; {3,1-0:X.7.0.255,2}; Power factor L1,L2,L3 X=33,53,73; {3,1-0:X.7.0.255,2}; Active import power (+A) L1,L2,L3 X=21,41,61; {3,1-0:X.7.0.255,2}; Aactive export power (-A) L1,L2,L3 X=22,42,62; {3,1-0:X.7.0.255,2}; Reactive import power (+R) L1,L2,L3 X=23,43,63; {3,1-0:X.7.0.255,2}; Reactive export power (-R) L1,L2,L3 X=24,44,64; {3,1-0:90.7.0.255,2}; Current (sum over all phases) {3,1-0:15.7.0.255 ,2}; Active power (+A + -A) {3,1-0:1.7.0.255,2}; Active import power (+A) {3,1-0:2.7.0.255,2}; Active export power (-A) {3,1-0:3.7.0.255,2}; Reactive import power (+R) {3,1-0:4.7.0.255,2}; Reactive export power (-R) {3,1-0:9.7.0.255,2}; Apparent import power (+VA) {3,1-0:10.7.0.255,2};apparent export power (-VA) {3,1-0:13.7.0.255,2}; Power factor (+A/+VA) {3,1-0:81.7.4.255,2};Phase Angle from I(L1) to U(L1) {3,1-0:81.7.15.255,2};Phase Angle from I(L2) to U(L2) {3,1-0:81.7.26.255,2};Phase Angle from I(L3) to U(L3)	--	Get	--	Get, Set					For single-phase meters, only one phase is active, so values connected with other phases (L2 and L3) have to be zero.
4	capture_period	double_long_unsigned			0	--	Get	--	Get					
5	sort_method	enum			1	--	Get	--	Get					
6	sort_object	capture_object_definition			none	--	Get	--	Get					
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			1	--	Get	--	Get					
1	reset					--	--	--	Action					
15	Electricity related objects -PQ, monitored values													
	Number of Short Power Failure in Any Phases		1	0	0-0:96.7.21.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600715FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of long power failures in any phase		1	0	0-0:96.7.9.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600709FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Time threshold for long power failure		3	0	0-0:96.7.20.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600714FF	--	--	--	Get					
2	value	long_unsigned			180	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Duration of last long power failure in any phase		3	0	0-0:96.7.19.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600713FF	--	--	--	Get					
2	value	{double_long_unsigend},				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Threshold for Under Voltage (sag)		3	0	1-0:12.31.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000C1F00FF	--	--	--	Get					
2	value	long_unsigned			-5% VREF to -20% VREF	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Time Threshold for Under Voltage (sag)		3	0	1-0:12.43.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000C2B00FF	--	--	--	Get					
2	value	long_unsigned			180	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Number of Under Voltages in phase L1		1	0	1-0:32.32.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100202000FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of Under Voltages (sag) in phase L2		1	0	1-0:52.32.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100342000FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of Under Voltages (sag) in phase L3		1	0	1-0:72.32.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100482000FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Duration of Under Voltage (sag) in phase L1		3	0	1-0:32.33.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100202100FF	--	--	--	Get					
2	value	double_long_unsigend				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Duration of Under Voltage (sag) in phase L2		3	0	1-0:52.33.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100342100FF	--	--	--	Get					
2	value	double_long_unsigend				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Duration of Under Voltage (sag) in phase L3		3	0	1-0:72.33.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100482100FF	--	--	--	Get					
2	value	double_long_unsigend				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Magnitude of Under Voltage (sag) in phase L1		3	0	1-0:32.34.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100202200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Magnitude of Under Voltage (sag) in phase L2		3	0	1-0:52.34.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100342200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Magnitude of Under Voltage (sag) in phase L3		3	0	1-0:72.34.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100482200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Threshold for Over Voltage (swell)		3	0	1-0:12.35.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000C2300FF	--	--	--	Get					
2	value	long_unsigned			+5% VREF to +15% VREF	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
1	reset					--	--	--	--					
	Time threshold for Over Voltage (swell)		3	0	1-0:12.44.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000C2C00FF	--	--	--	Get					
2	value	long_unsigned			180	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Number of Over Voltage (swell) in phase L1		1	0	1-0:32.36.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100202400FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of Over Voltage (swell) in phase L2		1	0	1-0:52.36.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100342400FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	long_unsigned				--	--	--	Get					
	Number of Over Voltage (swell) in phase L3		1	0	1-0:72.36.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100482400FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Duration of Over Voltage (swell) in phase L1		3	0	1-0:32.37.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100202500FF	--	--	--	Get					
2	value	double_long_unsigend				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Duration of Over Voltage (swell) in phasel2		3	0	1-0:52.37.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100342500FF	--	--	--	Get					
2	value	double_long_unsigend				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Duration of Over Voltage (swell) in phase L3		3	0	1-0:72.37.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100482500FF	--	--	--	Get					
2	value	double_long_unsigend				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Magnitude of Over Voltage (swell) in phase L1		3	0	1-0:32.38.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100202600FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Magnitude of Over Voltage (swell) in phase L2		3	0	1-0:52.38.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100342600FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Magnitude of Over Voltage (swell) in phase L3		3	0	1-0:72.38.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100482600FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Threshold for missing voltage (voltage cut)		3	0	1-0:12.39.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000C2700FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	long_unsigned			50% (Lower) VREF , for CT/PT meter 70% VREF	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,35}	--	--	--	Get					
	Time threshold for voltage cut		3	0	1-0:12.45.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000C2D00FF	--	--	--	Get					
2	value	long_unsigned			30	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Event Object -Power Failure Log		1	0	0-0:96.11.6.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B06FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Power Failure Event Log		7	1	1-0:99.97.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100636100FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access per range
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.6.255,2,0},{3,0-0:96.7.19.255,2,0}}	--	Get	--	Get, Set					Clock, Event Code, Duration of long power failures in any phase
4	capture_period	double_long_unsigned			0	--	Get	--	Get					asynchronously
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					Unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			50	--	Get	--	Get					
1	reset	integer				--	--	--	Action					
	Event Object -Power Quality Log		1	0	0-0:96.11.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B04FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Event Parameter 1 (Power Quality Log)		1	0	0-0:96.11.11.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600B0BFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					Magnitude of Power Quality Event
	Event Parameter 2 (Power Quality Log)		1	0	0-0:96.11.12.255					M	M	M	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0000600B0CFF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					Duration/Number of Power Quality Event. Number at the start of event and duration at the end of event is recorded
	Power Quality Log		7	1	0-0:99.98.4.255					M	M	M	M	
1	logical_name	octet_string[6]			0000636204FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					selective access perrange
3	capture_objects	array[2..4](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.4.255,2,0},{1,0-0:96.11.11.255,2,0},{1,0-0:96.11.12.255,2,0}}	--	Get	--	Get, (Set)					Clock, Event Code, Magnitude, Duration
4	capture_period	double_long_unsigned			0	--	Get	--	Get					asynchronously
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					Unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			200	--	Get	--	Get					
1	reset					--	--	--	Action					
	Number of power failures in all phases		1	0	0-0:96.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of power failures phase L1		1	0	0-0:96.7.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600701FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of power failures phase L2		1	0	0-0:96.7.2.255					NA	M	M	M	
1	logical_name	octet_string[6]			0000600702FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of power failures phase L3		1	0	0-0:96.7.3.255					NA	M	M	M	
1	logical_name	octet_string[6]			0000600703FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of long power failures in all phases		1	0	0-0:96.7.5.255					NA	M	M	M	
1	logical_name	octet_string[6]			0000600705FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Number of long power failures in phase L1		1	0	0-0:96.7.6.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600706FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of long power failures in phase L2		1	0	0-0:96.7.7.255					NA	M	M	M	
1	logical_name	octet_string[6]			0000600707FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Number of long power failures in phase L3		1	0	0-0:96.7.8.255					NA	M	M	M	
1	logical_name	octet_string[6]			0000600708FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
	Duration of Last Long Power Failure in All Phases		3	0	0-0:96.7.15.255					M	M	M	M	
1	logical_name	octet_string[6]			000060070FFF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Duration of Last Long Power Failure in Phase L1		3	0	0-0:96.7.16.255					M	M	M	M	
1	logical_name	octet_string[6]			0000600710FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Duration of Last Long Power Failure in Phasee L2		3	0	0-0:96.7.17.255					NA	M	M	M	
1	logical_name	octet_string[6]			0000600711FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Duration of Last Long Power Failure in Phase L3		3	0	0-0:96.7.18.255					NA	M	M	M	
1	logical_name	octet_string[6]			0000600712FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
	Instantaneous current L0 (neutral)		3	0	1-0:91.7.0.255					O	NA	NA	NA	
1	logical_name	octet_string[6]			01005B0700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-3, unit=A, resolution: 0.000 A

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Instantaneous voltage L1		3	0	1-0:32.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100200700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Average voltage L1		3	0	1-0:32.24.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100201800FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					10 minutes average voltage
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Instantaneous current L1		3	0	1-0:31.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01001F0700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A, resolution: 0.00 A
	Sliding Average current L1 (for fuse supervision)		5	0	1-0:31.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01001F0400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A, resolution: 0.00 A
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			1	--	--	--	Get					
9	number_of_periods	long_unsigned			90	--	--	--	Get, Set					
	Instantaneous voltage L2		3	0	1-0:52.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100340700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Average voltage L2		3	0	1-0:52.24.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100341800FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					10 minutes average voltage
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Instantaneous current L2		3	0	1-0:51.7.0.255					NA	M	M	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0100330700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A, resolution: 0.00 A
	Sliding Average current L2 (for fuse supervision)		5	0	1-0:51.4.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100330400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A, resolution: 0.00 A
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			1	--	--	--	Get					
9	number_of_periods	long_unsigned			90	--	--	--	Get, Set					
	Instantaneous voltage L3		3	0	1-0:72.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100480700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Average voltage L3		3	0	1-0:72.24.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100481800FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					10 minutes average voltage
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Instantaneous current L3		3	0	1-0:71.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100470700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A, resolution: 0.00 A
	Sliding Average current L3 (for fuse supervision)		5	0	1-0:71.4.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100470400FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A, resolution: 0.00 A
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			1	--	--	--	Get					
9	number_of_periods	long_unsigned			90	--	--	--	Get, Set					
	Instantaneous current(sum over all phases)		3	0	1-0:90.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01005A0700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					total current (sum of all phases)
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A, resolution: 0.00 A
	Instantaneous net frequency		3	0	1-0:14.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01000E0700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,44}	--	--	--	Get					scaler=-1 , unit=Hz resolution: 0.0
	Instantaneous active power (+A + -A)		3	0	1-0:15.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F0700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					sum of all phases: QI+QIV + QII+QIII
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
	Instantaneous active import power (+A)		3	0	1-0:1.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100010700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
	Instantaneous active export power (-A)		3	0	1-0:2.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100020700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
	Instantaneous reactive import power (+R)		3	0	1-0:3.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100030700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
	Instantaneous reactive export power (-R)		3	0	1-0:4.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100040700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
	Instantaneous apparent import power (+VA)		3	0	1-0:9.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100090700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,28} for CT/PT, other types {0,28}	--	--	--	Get					
	Instantaneous apparent export power (-VA)		3	0	1-0:10.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000A0700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,28} for CT/PT, other types {0,28}	--	--	--	Get					
	Instantaneous active import power (+A) L1		3	0	1-0:21.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100150700FF	--	--	--	Get					
2	Value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous active export power (-A) L1		3	0	1-0:22.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100160700FF	--	--	--	Get					
2	Value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive import power (+R) L1		3	0	1-0:23.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100170700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive export power (-R) L1		3	0	1-0:24.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100180700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous power factor (PF) L1		3	0	1-0:33.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100210700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Instantaneous active import power (+A) L2		3	0	1-0:41.7.0.255					NA	M	M	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0100290700FF	--	--	--	Get					
2	Value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous active export power (-A) L2		3	0	1-0:42.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01002A0700FF	--	--	--	Get					
2	Value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive import power (+R) L2		3	0	1-0:43.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01002B0700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive export power (-R) L2		3	0	1-0:44.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01002C0700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous power factor (PF) L2		3	0	1-0:53.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100350700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Instantaneous active import power (+A) L3		3	0	1-0:61.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01003D0700FF	--	--	--	Get					
2	Value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous active export power (-A) L3		3	0	1-0:62.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01003E0700FF	--	--	--	Get					
2	Value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive import power (+R) L3		3	0	1-0:63.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			01003F0700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive export power (-R) L3		3	0	1-0:64.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100400700FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous power factor (PF) L3		3	0	1-0:73.7.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100490700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Average Import Power (+A)		5	0	1-0:1.24.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100011800FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					
3	last_average_value	double_long_unsigned				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get					
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					
	Average Net Power (+A - -A)		5	0	1-0:16.24.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100101800FF	--	--	--	Get					
2	current_average_value	double_long				--	--	--	Get					
3	last_average_value	double_long				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get					
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					
	Average Total Power (+A + -A)		5	0	1-0:15.24.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000F1800FF	--	--	--	Get					
2	current_average_value	double_long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	last_average_value	double_long_unsigned				--	--	--	Get					
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
5	status	unsigned			0	--	--	--	Get					
6	capture_time	octet_string				--	--	--	Get					
7	start_time_current	octet_string				--	--	--	Get					
8	period	double_long_unsigned			60	--	--	--	Get					
9	number_of_periods	long_unsigned			15	--	--	--	Get, Set					
	Instantaneous Power factor (+A/+VA)		3	0	1-0:13.7.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000D0700FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Phase Angle from I(L1) to U(L1)		3	0	1-0:81.7.4.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100510704FF	--	Get	--	Get					
2	value	long				--	Get	--	Get					
3	scaler_unit	scal_unit_type			{0,8}	--	Get	--	Get					
	Phase Angle from I(L2) to U(L2)		3	0	1-0:81.7.15.255					NA	M	M	M	
1	logical_name	octet_string[6]			010051070FFF	--	Get	--	Get					
2	value	long				--	Get	--	Get					
3	scaler_unit	scal_unit_type			{0,8}	--	Get	--	Get					
	Phase Angle from I(L3) to U(L3)		3	0	1-0:81.7.26.255					NA	M	M	M	
1	logical_name	octet_string[6]			010051071AFF	--	Get	--	Get					
2	value	long				--	Get	--	Get					
3	scaler_unit	scal_unit_type			{0,8}	--	Get	--	Get					
	Measurement Period 3 for Instantaneous values		3	0	1-0:0.8.2.255					M	M	M	M	only for 3 objects: 1-0:32.24.0.255 1-0:52.24.0.255 1-0:72.24.0.255
1	logical_name	octet_string[6]			0100000802FF	--	--	--	Get					
2	value	double_long_unsigned			600	--	--	Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,7}	--	--	--	Get					
16	Average, Max and Min values (interval)													
	Last average value of voltage L1		3	0	1-0:32.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100201900FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V, resolution: 0.0 V
	Last average value of voltage L2		3	0	1-0:52.25.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100341900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V, resolution: 0.0 V
	Last average value of voltage L3		3	0	1-0:72.25.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100481900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V, resolution: 0.0 V
	Last average value of current L1		3	0	1-0:31.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01001F1900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=Aresolution: 0.00 A
	Last average value of current L2		3	0	1-0:51.25.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100331900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=Aresolution: 0.00 A
	Last average value of current L3		3	0	1-0:71.25.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100471900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=Aresolution: 0.00 A
	Last average value of power factor L1		3	0	1-0:33.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100211900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					
	Last average value of power factor L2		3	0	1-0:53.25.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100351900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Last average value of power factor L3		3	0	1-0:73.25.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			0100491900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					
	Last average value of power factor		3	0	1-0:13.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000D1900FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Last average value of import active power		3	0	1-0:1.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100011900FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Last average value of export active power		3	0	1-0:2.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100021900FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Last average value of import reactive power		3	0	1-0:3.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100031900FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Last average value of export reactive power		3	0	1-0:4.25.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0100041900FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Maximum value of voltage L1		3	0	1-0:32.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010020E200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Maximum value of voltage L2		3	0	1-0:52.226.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010034E200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=-1, unit=V resolution: 0.0 V
	Maximum value of voltage L3		3	0	1-0:72.226.0.255					NA	M	M	M	
	Maximum value of current L1		3	0	1-0:31.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01001FE200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A resolution: 0.00 A
	Maximum value of current L2		3	0	1-0:51.226.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010033E200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=-2, unit=A resolution: 0.00 A
	Maximum value of current L3		3	0	1-0:71.226.0.255					NA	M	M	M	
	Maximum value of power factor L1		3	0	1-0:33.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010021E200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Maximum value of power factor L2		3	0	1-0:53.226.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010035E200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Maximum value of power factor L3		3	0	1-0:73.226.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010049E200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Maximum value of power factor		3	0	1-0:13.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000DE200FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Maximum value of import active power		3	0	1-0:1.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010001E200FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
	Maximum value of export active power		3	0	1-0:2.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010002E200FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					
	Maximum value of import reactive power		3	0	1-0:3.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010003E200FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
	Maximum value of export reactive power		3	0	1-0:4.226.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010004E200FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					
	Minimum value of voltage L1		3	0	1-0:32.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010020DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=0 or-1, unit=V resolution: 0 or 0.0 V
	Minimum value of voltage L2		3	0	1-0:52.223.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010034DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=0 or-1, unit=V resolution: 0 or 0.0 V
	Minimum value of voltage L3		3	0	1-0:72.223.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010048DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,35}	--	--	--	Get					scaler=0 or-1, unit=Vresolution: 0 or 0.0 V
	Minimum value of current L1		3	0	1-0:31.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01001FDF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=0,-1 or-2, unit=Aresolution: 0, 0.0 or 0.00 A

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Minimum value of current L2		3	0	1-0:51.223.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010033DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=0,-1 or-2, unit=A resolution: 0, 0.0 or 0.00 A
	Minimum value of current L3		3	0	1-0:71.223.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010047DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-2,33}	--	--	--	Get					scaler=0,-1 or-2, unit=A resolution: 0, 0.0 or 0.00 A
	Minimum value of power factor L1		3	0	1-0:33.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010021DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					
	Minimum value of power factor L2		3	0	1-0:53.223.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010035DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					
	Minimum value of power factor L3		3	0	1-0:73.223.0.255					NA	M	M	M	
1	logical_name	octet_string[6]			010049DF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					
	Minimum value of power factor		3	0	1-0:13.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			01000DDF00FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-3,255}	--	--	--	Get					resolution: 0.000
	Minimum value of import active power		3	0	1-0:1.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010001DF00FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Minimum value of export active power		3	0	1-0:2.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010002DF00FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Minimum value of import reactive power		3	0	1-0:3.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010003DF00FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
	Minimum value of export reactive power		3	0	1-0:4.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010004DF00FF	--	--	--	Get					
2	value	double_long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}	--	--	--	Get					resolution: 0.0 for CT/PT, 0 for other types
17	Harmonic Related Objects													
	Current Average value of 3rd harmonic Distortion voltage L1		3	0	1-0:32.24.3.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100201803FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 3rd harmonic Distortion voltage L2		3	0	1-0:52.24.3.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100341803FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 3rd harmonic Distortion voltage L3		3	0	1-0:72.24.3.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100481803FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 5th harmonic Distortion voltage L1		3	0	1-0:32.24.5.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100201805FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 5th harmonic Distortion voltage L2		3	0	1-0:52.24.5.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100341805FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 5th harmonic Distortion voltage L3		3	0	1-0:72.24.5.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100481805FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 7th harmonic Distortion voltage L1		3	0	1-0:32.24.7.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100201807FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 7th harmonic Distortion voltage L2		3	0	1-0:52.24.7.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100341807FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 7th harmonic Distortion voltage L3		3	0	1-0:72.24.7.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100481807FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 9th harmonic Distortion voltage L1		3	0	1-0:32.24.9.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100201809FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 9th harmonic Distortion voltage L2		3	0	1-0:52.24.9.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100341809FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 9th harmonic Distortion voltage L3		3	0	1-0:72.24.9.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100481809FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Current Average value of 11th harmonic Distortion voltage L1		3	0	1-0:32.24.11.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010020180BFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 11th harmonic Distortion voltage L2		3	0	1-0:52.24.11.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010034180BFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 11th harmonic Distortion voltage L3		3	0	1-0:72.24.11.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010048180BFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 13th harmonic Distortion voltage L1		3	0	1-0:32.24.13.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010020180DFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 13th harmonic Distortion voltage L2		3	0	1-0:52.24.13.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010034180DFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 13th harmonic Distortion voltage L3		3	0	1-0:72.24.13.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010048180DFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of THD of voltage L1		3	0	1-0:32.24.124.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010020187CFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of THD of voltage L2		3	0	1-0:52.24.124.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010034187CFF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of THD of voltage L3		3	0	1-0:72.24.124.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010048187CFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 3rd harmonic Distortion current L1		3	0	1-0:31.24.3.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			01001F1803FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 3rd harmonic Distortion current L2		3	0	1-0:51.24.3.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100331803FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 3rd harmonic Distortion current L3		3	0	1-0:71.24.3.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100471803FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 5th harmonic Distortion current L1		3	0	1-0:31.24.5.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			01001F1805FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 5th harmonic Distortion current L2		3	0	1-0:51.24.5.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100331805FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 5th harmonic Distortion current L3		3	0	1-0:71.24.5.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100471805FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Current Average value of 7th harmonic Distortion current L1		3	0	1-0:31.24.7.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			01001F1807FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 7th harmonic Distortion current L2		3	0	1-0:51.24.7.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100331807FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 7th harmonic Distortion current L3		3	0	1-0:71.24.7.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100471807FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 9th harmonic Distortion current L1		3	0	1-0:31.24.9.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			01001F1809FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 9th harmonic Distortion current L2		3	0	1-0:51.24.9.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100331809FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 9th harmonic Distortion current L3		3	0	1-0:71.24.9.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			0100471809FF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 11th harmonic Distortion current L1		3	0	1-0:31.24.11.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			01001F180BFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 11th harmonic Distortion current L2		3	0	1-0:51.24.11.255					NA	NA	NA	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			010033180BFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 11th harmonic Distortion current L3		3	0	1-0:71.24.11.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010047180BFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 13th harmonic Distortion current L1		3	0	1-0:31.24.13.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			01001F180DFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 13th harmonic Distortion current L2		3	0	1-0:51.24.13.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010033180DFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of 13th harmonic Distortion current L3		3	0	1-0:71.24.13.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010047180DFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of THD of current L1		3	0	1-0:31.24.124.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			01001F187CFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of THD of current L2		3	0	1-0:51.24.124.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010033187CFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
	Current Average value of THD of current L3		3	0	1-0:71.24.124.255					NA	NA	NA	M	
1	logical_name	octet_string[6]			010047187CFF	--	--	--	Get					
2	value	long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1p	3p-DC	3p-CT	3p-CTPT	Remarks
3	scaler_unit	scal_unit_type			{-1,56}	--	--	--	Get					resolution: 0.0
18	M-Bus related objects													
	M-Bus master port setup 1		74	0	0-0:24.6.0.255					M-M	M-M	M-M	M-M	Wired M-Bus port setup
1	logical_name	octet_string[6]			0000180600FF	--	--	--	Get					
2	comm_speed	enum			3	--	--	--	Get					3== 2400 bps fix
	M-Bus master port setup 2		74	0	0-1:24.6.0.255					O-M	O-M	O-M	O-M	Wireless M-Bus port setup
1	logical_name	octet_string[6]			0001180600FF	--	--	--	Get					
2	comm_speed	enum				--	--	--	Get					(0) 300 bps, (1) 600 bps, (2) 1200bps, (3) 2400 bps, (4) 4800 bps, (5) 9600 bps, (6) 19200 bps...
	M-Bus client channel 1		72	0	0-1:24.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180100FF	--	--	--	Get					
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)	--	--	--	Get, Set					
3	capture_definition	array				--	--	--	Get, Set					
4	capture_period	double_long_unsigned				--	--	Set	Get, Set					
5	primary_address	unsigned				--	--	--	Get, Set					
6	identification_number	double_long_unsigned				--	--	--	Get					
7	manufacturer_id	long_unsigned				--	--	--	Get					
8	version	unsigned				--	--	--	Get					
9	device_type	unsigned				--	--	--	Get					
10	access_number	unsigned				--	--	--	Get					
11	status	unsigned				--	--	--	Get					
12	alarm	unsigned				--	--	--	Get					
1	slave_install	unsigned				--	--	--	Action					
2	slave_deinstall	unsigned				--	--	--	Action					
3	capture	integer				--	--	--	(Action)					
4	reset_alarm	integer				--	--	--	(Action)					
5	synchronize_clock	integer				--	--	--	(Action)					
6	data_send	array				--	--	--	(Action)					
7	set_encryption_key	octet_string				--	--	--	Action					
8	transfer_key	octet_string				--	--	--	Action					
	M-Bus client channel 2		72	0	0-2:24.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180100FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)	--	--	--	Get, Set					
3	capture_definition	array				--	--	--	Get, Set					
4	capture_period	double_long_unsigned				--	--	Set	Get, Set					
5	primary_address	unsigned				--	--	--	Get, Set					
6	identification_number	double_long_unsigned				--	--	--	Get					
7	manufacturer_id	long_unsigned				--	--	--	Get					
8	version	unsigned				--	--	--	Get					
9	device_type	unsigned				--	--	--	Get					
10	access_number	unsigned				--	--	--	Get					
11	status	unsigned				--	--	--	Get					
12	alarm	unsigned				--	--	--	Get					
1	slave_install	unsigned				--	--	--	Action					
2	slave_deinstall	unsigned				--	--	--	Action					
3	capture	integer				--	--	--	(Action)					
4	reset_alarm	integer				--	--	--	(Action)					
5	synchronize_clock	integer				--	--	--	(Action)					
6	data_send	array				--	--	--	(Action)					
7	set_encryption_key	octet_string				--	--	--	Action					
8	transfer_key	octet_string				--	--	--	Action					
	M-Bus client channel 3		72	0	0-3:24.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180100FF	--	--	--	Get					
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)	--	--	--	Get, Set					
3	capture_definition	array				--	--	--	Get, Set					
4	capture_period	double_long_unsigned				--	--	Set	Get, Set					
5	primary_address	unsigned				--	--	--	Get, Set					
6	identification_number	double_long_unsigned				--	--	--	Get					
7	manufacturer_id	long_unsigned				--	--	--	Get					
8	version	unsigned				--	--	--	Get					
9	device_type	unsigned				--	--	--	Get					
10	access_number	unsigned				--	--	--	Get					
11	status	unsigned				--	--	--	Get					
12	alarm	unsigned				--	--	--	Get					
1	slave_install	unsigned				--	--	--	Action					
2	slave_deinstall	unsigned				--	--	--	Action					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	capture	integer				--	--	--	(Action)					
4	reset_alarm	integer				--	--	--	(Action)					
5	synchronize_clock	integer				--	--	--	(Action)					
6	data_send	array				--	--	--	(Action)					
7	set_encryption_key	octet_string				--	--	--	Action					
8	transfer_key	octet_string				--	--	--	Action					
	M-Bus client channel 4		72	0	0-4:24.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180100FF	--	--	--	Get					
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)	--	--	--	Get, Set					
3	capture_definition	array				--	--	--	Get, Set					
4	capture_period	double_long_unsigned				--	--	Set	Get, Set					
5	primary_address	unsigned				--	--	--	Get, Set					
6	identification_number	double_long_unsigned				--	--	--	Get					
7	manufacturer_id	long_unsigned				--	--	--	Get					
8	version	unsigned				--	--	--	Get					
9	device_type	unsigned				--	--	--	Get					
10	access_number	unsigned				--	--	--	Get					
11	status	unsigned				--	--	--	Get					
12	alarm	unsigned				--	--	--	Get					
1	slave_install	unsigned				--	--	--	Action					
2	slave_deinstall	unsigned				--	--	--	Action					
3	capture	integer				--	--	--	(Action)					
4	reset_alarm	integer				--	--	--	(Action)					
5	synchronize_clock	integer				--	--	--	(Action)					
6	data_send	array				--	--	--	(Action)					
7	set_encryption_key	octet_string				--	--	--	Action					
8	transfer_key	octet_string				--	--	--	Action					
	M-Bus Value channel 1, instance 1		4	0	0-1:24.2.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180201FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	reset					--	--	--	(Action)					
	M-Bus Value channel 1, instance 2		4	0	0-1:24.2.2.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180202FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 1, instance 3		4	0	0-1:24.2.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180203FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 1, instance 4		4	0	0-1:24.2.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180204FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 2, instance 1		4	0	0-2:24.2.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180201FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	M-Bus Value channel 2, instance 2		4	0	0-2:24.2.2.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180202FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type			{0,255}	--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 2, instance 3		4	0	0-2:24.2.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180203FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 2, instance 4		4	0	0-2:24.2.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180204FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 3, instance 1		4	0	0-3:24.2.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180201FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 3, instance 2		4	0	0-3:24.2.2.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180202FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	choice(double_long_unsigned/octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 3, instance 3		4	0	0-3:24.2.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180203FF	--	--	--	Get					
2	value	choice(double_long_unsigned/octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 3, instance 4		4	0	0-3:24.2.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180204FF	--	--	--	Get					
2	value	choice(double_long_unsigned/octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 4, instance 1		4	0	0-4:24.2.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180201FF	--	--	--	Get					
2	value	choice(double_long_unsigned/octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 4, instance 2		4	0	0-4:24.2.2.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180202FF	--	--	--	Get					
2	value	choice(double_long_unsigned/octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 4, instance 3		4	0	0-4:24.2.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180203FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Value channel 4, instance 4		4	0	0-4:24.2.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180204FF	--	--	--	Get					
2	value	choice(double_long_unsigned,octet_string)				--	--	--	Get					
3	scaler_unit	scal_unit_type				--	--	--	Get, (Set)					
4	status	unsigned				--	--	--	Get					
5	capture_time	octet_string				--	--	--	Get					time of last successful readout;format same as clock.time
1	reset					--	--	--	(Action)					
	M-Bus Device ID 1 channel 1		1	0	0-1:96.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001600100FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					
	M-Bus Device ID 1 channel 2		1	0	0-2:96.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002600100FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					
	M-Bus Device ID 1 channel 3		1	0	0-3:96.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003600100FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					
	M-Bus Device ID 1 channel 4		1	0	0-4:96.1.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004600100FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	M-Bus Device ID 2 channel 1		1	0	0-1:96.1.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001600101FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					
	M-Bus Device ID 2 channel 2		1	0	0-2:96.1.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002600101FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					
	M-Bus Device ID 2 channel 3		1	0	0-3:96.1.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003600101FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					
	M-Bus Device ID 2 channel 4		1	0	0-4:96.1.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004600101FF	--	--	--	Get					
2	value	octet_string[0..48]				--	--	--	Get, Set					
	Profile status for M-Bus Master Load profile 1		1	0	0-1:96.10.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001600A03FF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	Profile status for M-Bus Master Load profile 2		1	0	0-2:96.10.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002600A03FF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	Profile status for M-Bus Master Load profile 3		1	0	0-3:96.10.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003600A03FF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	Profile status for M-Bus Master Load profile 4		1	0	0-4:96.10.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004600A03FF	--	--	--	Get					
2	status	unsigned				--	--	--	Get					
	M-Bus Master Load profile for channel 1		7	1	0-1:24.3.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180300FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
3	capture_objects	array[2..6] (capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-1:96.10.3.255,2,0}, {4, 0-1:24.2.[1..4].255,2,0}}	--	Get	--	Get, Set					
4	capture_period	double_long_unsigned			Choice (60, 300s, 900, 1800, 3600, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days	--	Get	--	Get					≥31 days
1	reset					--	--	--	Action					
	M-Bus Master Load profile for channel 2		7	1	0-2:24.3.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180300FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					
3	capture_objects	array[2..6] [2...*] (capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-2:96.10.3.255,2,0}, {4, 0-2:24.2.[1..4].255,2,0}}	--	Get	--	Get, Set					
4	capture_period	double_long_unsigned			Choice (60, 300, 900, 1800, 3600, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days	--	Get	--	Get					≥31 days
1	reset					--	--	--	Action					
	M-Bus Master Load profile for channel 3		7	1	0-3:24.3.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180300FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					
3	capture_objects	array[2..6] (capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-3:96.10.3.255,2,0}, {4, 0-3:24.2.[1..4].255,2,0}}	--	Get	--	Get, Set					
4	capture_period	double_long_unsigned			Choice (60, 300, 900, 1800, 3600, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days	--	Get	--	Get					≥31 days
1	reset					--	--	--	Action					
	M-Bus Master Load profile for channel 4		7	1	0-4:24.3.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180300FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					
3	capture_objects	array[2..6](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1, 0-4:96.10.3.255,2,0}, {4, 0-4:24.2.[1..4].255,2,0}}	--	Get	--	Get, Set					
4	capture_period	double_long_unsigned			Choice (60, 300, 900, 1800, 3600, 86400)	--	Get	--	Get, Set					
5	sort_method	enum			Choice (1,4) default (FIFO)	--	Get	--	Get					In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days	--	Get	--	Get					≥31 days
1	reset				--	--	--	Action						
	M-Bus Master Disconnect control object 1		70	0	0-1:24.4.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180400FF	--	--	--	Get					
2	output_state	boolean				--	--	--	Get					
3	control_state	enum				--	--	--	Get					
4	control_mode	enum				--	--	Set	Get, Set					
1	remote_disconnect	integer				--	--	--	Action					
2	remote_connect	integer				--	--	--	Action					
	M-Bus Master Disconnect control object 2		70	0	0-2:24.4.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180400FF	--	--	--	Get					
2	output_state	boolean				--	--	--	Get					
3	control_state	enum				--	--	--	Get					
4	control_mode	enum				--	--	Set	Get, Set					
1	remote_disconnect	integer				--	--	--	Action					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	remote_connect	integer				--	--	--	Action					
	M-Bus Master Disconnect control object 3		70	0	0-3:24.4.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180400FF	--	--	--	Get					
2	output_state	boolean				--	--	--	Get					
3	control_state	enum				--	--	--	Get					
4	control_mode	enum				--	--	Set	Get, Set					
1	remote_disconnect	integer				--	--	--	Action					
2	remote_connect	integer				--	--	--	Action					
	M-Bus Master Disconnect control object 4		70	0	0-4:24.4.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180400FF	--	--	--	Get					
2	output_state	boolean				--	--	--	Get					
3	control_state	enum				--	--	--	Get					
4	control_mode	enum				--	--	Set	Get, Set					
1	remote_disconnect	integer				--	--	--	Action					
2	remote_connect	integer				--	--	--	Action					
	M-Bus Disconnect control scheduler		22	0	0-1:15.0.1.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			00010F0001FF	--	--	--	Get					
2	executed_script	script22			{0-1:10.0.106.255, [1..16]}	--	--	--	Get, Set					
3	type	enum			1	--	--	--	Get, (Set)					1 is mandatory (Other are optional. If only type 1 is supported Set is optional)
4	execution_time	array[0..1]			{{"FFFFFFFF", "FFFFFFFF"}}	--	--	--	Get, Set					dedicated timepoint for connection or disconnection
	M-Bus Disconnect script table		9	0	0-1:10.0.106.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			00010A006AFF	--	--	--	Get					
2	scripts	array[8](script9)			{ {1,{{1,70, 0-1:24.4.0.255,3,2}}}, {2,{{1,70, 0-1:24.4.0.255,3,1}}}, {3,{{1,70, 0-2:24.4.0.255,3,2}}}, {4,{{1,70, 0-2:24.4.0.255,3,1}}}, {5,{{1,70, 0-3:24.4.0.255,3,2}}}, {6,{{1,70, 0-3:24.4.0.255,3,1}}}, {7,{{1,70, 0-4:24.4.0.255,3,2}}}, {8,{{1,70, 0-4:24.4.0.255,3,1}}}, {9,{{2,70, 0-1:24.4.0.255,1,0}}}, {10,{{2,70, 0-:24.4.0.255,2,0}}}, {11,{{2,70, 0-2:24.4.0.255,1,0}}}, {12,{{2,70, 0-2:24.4.0.255,2,0}}}, {13,{{2,70, 0-3:24.4.0.255,1,0}}}, {14,{{2,70, 0-3:24.4.0.255,2,0}}}, {15,{{2,70, 0-4:24.4.0.255,1,0}}}, {16,{{2,70, 0-4:24.4.0.255,2,0}}} }	--	--	--	Get					local and remote connect and disconnect methods of the M-Bus disconnecter objects

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	execute	long_unsigned				--	--	--	Action					Executes the script specified in parameter data.If data matches one of the script_identifiers in the script table, then the corresponding action_specification is executed.No direct method call possible via remote communication
	Event Objects -M-Bus Master Control logs 1		1	0	0-1:96.11.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001600B04FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Event Objects -M-Bus Master Control logs 2		1	0	0-2:96.11.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002600B04FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Event Objects -M-Bus Master Control logs 3		1	0	0-3:96.11.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003600B04FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Event Objects -M-Bus Master Control logs 4		1	0	0-4:96.11.4.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004600B04FF	--	--	--	Get					
2	value	enum				--	--	--	Get					event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	M-Bus Master Control log object 1		7	1	0-1:24.5.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0001180500FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0}, {1, 0-1:96.11.4.255, 2, 0}}	--	Get	--	Get, (Set)					
4	capture_period	double_long_unsigned			0	--	Get	--	Get					
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			20	--	Get	--	Get					
1	reset					--	--	--	Action					
	M-Bus Master Control log object 2		7	1	0-2:24.5.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0002180500FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0}, {1, 0-2:96.11.4.255, 2, 0}}	--	Get	--	Get, (Set)					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
4	capture_period	double_long_unsigned			0	--	Get	--	Get					
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0}	--	Get	--	Get					unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			20	--	Get	--	Get					
1	reset					--	--	--	Action					
	M-Bus Master Control log object 3		7	1	0-3:24.5.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0003180500FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0}, {1, 0-3:96.11.4.255, 2, 0}}	--	Get	--	Get, (Set)					
4	capture_period	double_long_unsigned			0	--	Get	--	Get					
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0}	--	Get	--	Get					unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			20	--	Get	--	Get					
1	reset					--	--	--	Action					
	M-Bus Master Control log object 4		7	1	0-4:24.5.0.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0004180500FF	--	Get	--	Get					
2	buffer	array				--	Get	--	Get					
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0},{1, 0-4:96.11.4.255, 2, 0}}	--	Get	--	Get, (Set)					
4	capture_period	double_long_unsigned			0	--	Get	--	Get					
5	sort_method	enum			1	--	Get	--	Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0}	--	Get	--	Get					unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			20	--	Get	--	Get					
1	reset					--	--	--	Action					
	Event Object -M-Bus Event Log		1	0	0-0:96.11.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0000600B03FF	--	--	--	Get					
2	value	enum				--	--	--	Get					
	M-Bus Event Log		7	1	0-0:99.98.3.255					M-M	M-M	M-M	M-M	
1	logical_name	octet_string[6]			0000636203FF	--	Get	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	buffer	array				--	Get	--	Get					selective access per range
3	capture_objects	array[2](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-0:96.11.3.255, 2, 0}}	--	Get	--	Get, (Set)					clock;event code
4	capture_period	double_long_unsigned			0	--	Get	--	Get					asynchronously
5	sort_method	enum			1	--	Get	--	Get					unsorted (FIFO)
6	sort_object	capture_object_definition			{0,0-0:0.0.0.0,0,0}	--	Get	--	Get					unsorted
7	entries_in_use	double_long_unsigned				--	Get	--	Get					
8	profile_entries	double_long_unsigned			20	--	Get	--	Get					
1	reset					--	--	--	Action					
19	Local communication - IEC/HDLC Optical port													
	IEC HDLC setup -HDLC Optical port		23	1	0-0:22.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000160000FF	--	--	--	Get					
2	comm_speed	enum			5	--	--	Set	Get, Set					9 600 baud
3	window_size_transmit	unsigned			1	--	--	Set	Get, Set					
4	window_size_receive	unsigned			1	--	--	Set	Get, Set					
5	max_info_field_lenght_transmit	long_unsigned			[32..2030]	--	--	Set	Get, Set					
6	max_info_field_lenght_receive	long_unsigned			[32..2030]	--	--	Set	Get, Set					
7	inter_octet_time_out	long_unsigned			[20..6000]	--	--	Set	Get, Set					
8	inactivity_time_out	long_unsigned			180	--	--	Set	Get, Set					
9	device_address	long_unsigned				--	--	--	Get, Set					
	IEC Local port setup		19	1	0-0:20.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000140000FF	--	--	--	Get					
2	default_mod	enum			choice (0,1) , Default 1	--	--	--	Get, Set					MODE 0=MODE E MODE 1=HDLC
3	default_baud	enum			choice (0,9) , Default 0	--	--	Set	Get, Set					300
4	prop_baud	enum			choice (0,9) , Default 5	--	--	Set	Get, Set					9600
5	response_time	enum			choice (0,1) , Default 1	--	--	Set	Get, Set					
6	device_addr	long_unsigned				--	--	Set	Get, Set					
7	pass_p1	octet_string				--	--	Set	Set					
8	pass_p2	octet_string				--	--	Set	Set					
9	pass_w5	octet_string				--	--	Set	Set					
	IEC HDLC setup -Consumer Information Interface		23	1	0-1:22.0.0.255					O	O	O	O	
1	logical_name	octet_string[6]			0001160000FF	--	--	--	Get					
2	comm_speed	enum			choice(4,5,6)	--	--	Set	Get, Set					4800,9 600,19200 baud
3	window_size_transmit	unsigned			1	--	--	Set	Get, Set					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
4	window_size_receive	unsigned			1	--	--	Set	Get, Set					
5	max_info_field_lenght_transmit	long_unsigned			[32..2030]	--	--	Set	Get, Set					
6	max_info_field_lenght_receive	long_unsigned			[32..2030]	--	--	Set	Get, Set					
7	inter_octet_time_out	long_unsigned			[20..6000]	--	--	Set	Get, Set					
8	inactivity_time_out	long_unsigned			180	--	--	Set	Get, Set					
9	device_address	long_unsigned				--	--	--	Get, Set					
	IEC HDLC setup -HDLC electrical port (RS485)		23	1	0-2:22.0.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0002160000FF	--	--	--	Get					
2	comm_speed	enum			choice(4,5,6)	--	--	Set	Get, Set					4800,9 600,19200 baud
3	window_size_transmit	unsigned			1	--	--	Set	Get, Set					
4	window_size_receive	unsigned			1	--	--	Set	Get, Set					
5	max_info_field_lenght_transmit	long_unsigned			[32..2030]	--	--	Set	Get, Set					
6	max_info_field_lenght_receive	long_unsigned			[32..2030]	--	--	Set	Get, Set					
7	inter_octet_time_out	long_unsigned			[20..6000]	--	--	Set	Get, Set					
8	inactivity_time_out	long_unsigned			180	--	--	Set	Get, Set					
9	device_address	long_unsigned				--	--	--	Get, Set					
20	Other Objects													
	Active Quadrant		1	0	1-0:94.98.10.255					M	M	M	M	
1	logical_name	octet_string[6]			01005E620AFF	--	--	--	Get					
2	value	unsigned				--	--	--	Get					
	Active Quadrant L1		1	0	1-0:94.98.11.255					NA	M	M	M	
1	logical_name	octet_string[6]			01005E620BFF	--	--	--	Get					
2	value	unsigned			0= creep or no Quadrant detected 1,2,3,4 =Active Quadrant (QI,QII,QIII,QIV)	--	--	--	Get					Active power quadrant indicator
	Active Quadrant L2		1	0	1-0:94.98.12.255					NA	M	M	M	
1	logical_name	octet_string[6]			01005E620CFF	--	--	--	Get					
2	value	unsigned			0= creep or no Quadrant detected 1,2,3,4 =Active Quadrant (QI,QII,QIII,QIV)	--	--	--	Get					Active power quadrant indicator
	Active Quadrant L3		1	0	1-0:94.98.13.255					NA	M	M	M	
1	logical_name	octet_string[6]			01005E620DFF	--	--	--	Get					
2	value	unsigned			0= creep or no Quadrant detected 1,2,3,4 =Active Quadrant (QI,QII,QIII,QIV)	--	--	--	Get					Active power quadrant indicator

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Phase Presence		1	0	1-0:94.98.14.255					NA	M	M	M	
1	logical_name	octet_string[6]			01005E620EFF	--	--	--	Get					
2	value	unsigned			Bit0: phase L1, Bit1:phase L2, Bit2:phase L3	--	--	--	Get					Phase presence indicator
	Unbalance Load Detection		1	0	0-0:94.98.15.255					NA	M	M	M	
1	logical_name	octet_string[6]			01005E620FFF	--	--	--	Get					
2	value	{ minimum current that activate unbalance task in meter long_unsigned Unbalance threshold (%) long_unsigned }				--	--	--	Get , Set					the scaler of minimum current for unbalance load detection threshold is Scaler=> -2
	Transformer ratio – current (numerator)		1	0	1-0:0.4.2.255					NA	NA	M	M	
1	logical_name	octet_string[6]			0100000402FF	--	--	--	Get					
2	value	long-unsigned				--	--	--	Get, Set					
	Transformer ratio – voltage (numerator)		1	0	1-0:0.4.3.255					NA	NA	M	M	
1	logical_name	octet_string[6]			0100000403FF	--	--	--	Get					
2	value	long-unsigned				--	--	--	Get, Set					
	Transformer ratio – current (denominator)		1	0	1-0:0.4.5.255					NA	NA	M	M	
1	logical_name	octet_string[6]			0100000405FF	--	--	--	Get					
2	value	long-unsigned				--	--	--	Get, Set					
	Transformer ratio – voltage (denominator)		1	0	1-0:0.4.6.255					NA	NA	M	M	
1	logical_name	octet_string[6]			0100000406FF	--	--	--	Get					
2	value	long-unsigned				--	--	--	Get, Set					
	General Display readout List-Auto Scroll		7	1	0-0:21.0.1.255					M	M	M	M	
1	logical_name	octet_string[6]			0000150001FF	--	--	--	Get					
2	buffer	array				--	--	--	Get					
3	capture_objects	array[*..100]			Choice (energies, instant, demands, maximum demands values ,device ID's, Error, alarms, Actual time, actual date, Mbus Id, Mbus values,.....)	--	--	--	Get, Set					acc. to meter's data sheet
4	capture_period	double_long_unsigned			10 seconds	--	--	--	Get, Set					Auto scroll display retention time (10..60)seconds
5	sort_method	enum			1	--	--	--	Get					
6	sort_object	capture_object_definition			none	--	--	--	Get					
7	entries_in_use	double_long_unsigned				--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1p	3p-DC	3p-CT	3p-CTPT	Remarks
8	profile_entries	double_long_unsigned			1	--	--	--	Get					
1	reset					--	--	--	Action					
	Alternative Display readout List-Manual Scroll		7	1	0-0:21.0.2.255					M	M	M	M	
1	logical_name	octet_string[6]			0000150002FF	--	--	--	Get					
2	buffer	array				--	--	--	Get					
3	capture_objects	array[*..100]			Choice (energies, instant, demands, maximum demands values ,device ID's, Error, alarms, Actual time, actual date, Mbus Id, Mbus values,.....)	--	--	--	Get, Set					acc. to meter's data sheet
4	capture_period	double_long_unsigned			60 seconds	--	--	--	Get, Set					Manual scroll display timeout (60.. 3600)seconds
5	sort_method	enum			1	--	--	--	Get					
6	sort_object	capture_object_definition			none	--	--	--	Get					
7	entries_in_use	double_long_unsigned				--	--	--	Get					
8	profile_entries	double_long_unsigned			1	--	--	--	Get					
1	reset					--	--	--	Action					
21	Abstract objects - TCP/IP profile setup													
	TCP-UDP setup		41	0	0-0:25.0.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0000190000FF	--	--	--	Get					
2	TCP-UDP_port	long-unsigned			4059	--	--	--	Get, Set					
3	IP_reference	octet-string			0-0:25.1.0.255	--	--	--	Get					
4	MSS	long-unsigned			1280	--	--	--	Get, Set					
5	nb_of_sim_conn	unsigned			5	--	--	--	Get, Set					including both TCP and UDP
6	inactivity_time_out	long_unsigned			180	--	--	--	Get, Set					
	IPv4 setup		42	0	0-0:25.1.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0000190100FF	--	--	--	Get					
2	DL_reference	octet-string[6]			Choice(0-0:25.3.0.255, 0-0:25.2.0.255)	--	--	--	Get, Set					
3	IP_address	double-long-unsigned				--	--	--	Get, Set					
4	multicast_IP_address	array[0..*]				--	--	--	Get, Set					
5	IP_options	array[0..*]				--	--	--	Get, Set					
6	subnet_mask	double-long-unsigned				--	--	--	Get, Set					
7	gateway_IP_address	double-long-unsigned				--	--	--	Get, Set					
8	use_DHCP_flag	boolean				--	--	--	Get, Set					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
9	primary_DNS_address	double-long-unsigned				--	--	--	Get, Set					
10	secondary_DNS_address	double-long-unsigned				--	--	--	Get, Set					
1	add_mc_IP_address (data)	double-long-unsigned				--	--	--	--					
2	delete_mc_IP_address (data)	double-long-unsigned				--	--	--	--					
3	get_nbof_mc_IP_addresses (data)	unsigned				--	--	--	--					
	IPv6 setup		48	0	0-0:25.7.0.255					O	O	O	O	
1	logical_name	octet-string[6]			0000190700FF	--	--	--	Get					
2	DL_reference	octet-string[6]			Choice(0-0:25.3.0.255, 0-0:25.2.0.255)	--	--	--	Get, Set					
3	address_config_mode	enum			0	--	--	--	Get, Set					
4	unicast_IPv6_addresses	array[0..*](IPv6_address)				--	--	--	Get, Set					
5	multicast_IPv6_addresses	array[0..*](IPv6_address)				--	--	--	Get, Set					
6	gateway_IPv6_addresses	array[0..*](IPv6_address)				--	--	--	Get, Set					
7	primary_DNS_address	IPv6_address				--	--	--	Get, Set					
8	secondary_DNS_address	IPv6_address				--	--	--	Get, Set					
9	traffic_class	unsigned				--	--	--	Get, Set					
10	neighbor_discovery_setup	array[0..*](neighbour_discovery_setup_element)				--	--	--	Get, Set					
1	add_IPv6_address (data)	IPv6_address_entry				--	--	--	--					
2	remove_IPv6_address (data)	IPv6_address_entry				--	--	--	--					
	PPP setup		44	0	0-0:25.3.0.255					M-G	M-G	M-G	M-G	
1	logical_name	octet-string[6]			0000190300FF	--	--	--	Get					
2	PHY_reference	octet-string[6]			0-0:25.4.0.255	--	--	--	Get, Set					
3	LCP_options	array[0..8](LCP_options_element)			{ {3, 4, 0xC023},... }	--	--	--	Get, Set					{ LCP-option-type := Auth-Prot, LCP-Option-Length := 2, LCP-option-data := PAP}
4	IPCP_options	array[0..5]((LCP_options_element))			{ {2, 4, 0x0000},... }	--	--	--	Get, Set					{ IPCP-option-type := IP-comp-prot, IPCP-option-Length := 2, IPCP-option-data := No-IP-Compression-is-used}
5	PPP_authentication	PPP_authentication_type			PAP	--	--	--	Get, Set					
22	Abstract objects - Push setup													
	Push Setup interval-01		40	0	0-1:25.9.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0001190900FF	--	--	--	Get					
2	push_object_list	array[0..*](capture_object_definition)				--	--	--	Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{choice (0,1,4),*,0}	--	--	--	Get, Set					
4	communication_window	array[0..*](window_element)				--	--	--	Get, Set					
5	randomisation_start_interval	long-unsigned			0	--	--	--	Get, Set					Randomization time in seconds, 0 = no randomization at start of the first window defined in calling_window

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
6	number_of_retries	unsigned				--	--	--	Get, Set					Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned				--	--	--	Get, Set					Delay in seconds between repetitions
1	push	integer				--	--	Action	Action					
	Push Setup-interval-02		40	0	0-2:25.9.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0002190900FF	--	--	--	Get					
2	push_object_list	array[0..*](capture_object_definition)				--	--	--	Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{0,*,0}	--	--	--	Get, Set					
4	communication_window	array[0..*](window_element)				--	--	--	Get, Set					
5	randomisation_start_interval	long-unsigned			0	--	--	--	Get, Set					Randomization time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned				--	--	--	Get, Set					Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned				--	--	--	Get, Set					Delay in seconds between repetitions
1	push	integer				--	--	Action	Action					
	Push setup - Interval_03		40	0	0-3:25.9.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0003190900FF	--	--	--	Get					
2	push_object_list	array[0..*](capture_object_definition)				--	--	--	Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{0,*,0}	--	--	--	Get, Set					
4	communication_window	array[0..*](window_element)				--	--	--	Get, Set					
5	randomisation_start_interval	long-unsigned			0	--	--	--	Get, Set					Randomization time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned				--	--	--	Get, Set					Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned				--	--	--	Get, Set					Delay in seconds between repetitions
1	push	integer				--	--	Action	Action					
	Push setup -On Alarm		40	0	0-4:25.9.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0004190900FF	--	--	--	Get					
2	push_object_list	array[0..*](capture_object_definition)			{1,0-0:97.98.20.255,2,0}//Alarm Descriptor 1 Or {1,0-0:97.98.21.255,2,0}//Alarm Descriptor 2	--	--	--	Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{0,*,0}	--	--	--	Get, Set					
4	communication_window	array[0..*](window_element)				--	--	--	Get, Set					
5	randomisation_start_interval	long-unsigned			0	--	--	--	Get, Set					Randomization time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned				--	--	--	Get, Set					Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned				--	--	--	Get, Set					Delay in seconds between repetitions
1	push	integer				--	--	Action	Action					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Push setup -On Connectivity		40	0	0-0:25.9.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0000190900FF	--	--	--	Get					
2	push_object_list	array[0..*](capture_object_definition)			{1, 0-0:96.1.5.255}	--	--	--	Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{0,*0}	--	--	--	Get, Set					
4	communication_window	array[0..*](window_element)				--	--	--	Get, Set					
5	randomisation_start_interval	long-unsigned			0	--	--	--	Get, Set					Randomization time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned				--	--	--	Get, Set					Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned				--	--	--	Get, Set					Delay in seconds between repetitions
1	push	integer				--	--	Action	Action					
	Push setup -On Installation		40	0	0-7:25.9.0.255					M	M	M	M	
1	logical_name	octet-string[6]			0007190900FF	--	--	--	Get					
2	push_object_list	array[0..*](capture_object_definition)				--	--	--	Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{4,*0}	--	--	--	Get, Set					
4	communication_window	array[0..*](window_element)				--	--	--	Get, Set					
5	randomisation_start_interval	long-unsigned			0	--	--	--	Get, Set					Randomization time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned				--	--	--	Get, Set					Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned				--	--	--	Get, Set					Delay in seconds between repetitions
1	push	integer				--	--	Action	Action					
	Push script table		9	0	0-0:10.0.108.255					M	M	M	M	
1	logical_name	octet_string[6]			00000A006CFF	--	--	--	Get					
2	scripts	array[7](script9)			{ {1,{{2,40,0-1:25.9.0.255,1,0}}}, //Push Setup interval-01 {2,{{2,40,0-2:25.9.0.255,1,0}}}, //Push Setup interval-02 {3,{{2,40,0-3:25.9.0.255,1,0}}}, //Push Setup interval-03 {4,{{2,40,0-4:25.9.0.255,1,0}}}, //Push - On Alarm {5,{{2,40,0-0:25.9.0.255,1,0}}}, //Push - On Connectivity {6,{{2,40,0-7:25.9.0.255,1,0}}}, //Push - On Installation {7,{{2,40,0-6:25.9.0.255,1,0}}}, //Push- Consumer information }	--	--	--	Get, (Set)					Script 3 is optional
1	execute	long_unsigned				--	--	--	Action					
	Push action scheduler – Interval_01		22	0	0-1:15.0.4.255					M	M	M	M	
1	logical_name	octet_string[6]			00010F0004FF	--	--	--	Get					
2	executed_script	script22			{0-0:10.0.108.255,1}	--	--	--	Get, (Set)					
3	type	enum			5	--	--	--	Get, (Set)					n=4
4	execution_time	array[0..*](execution_time_date)				--	--	--	Get, Set					The schedule can be disabled with writing {{"FFFFFFFF", "FFFFFFFFF"}}

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
	Push action scheduler - Interval_02		22	0	0-2:15.0.4.255					M	M	M	M	
1	logical_name	octet_string[6]			00020F0004FF	--	--	--	Get					
2	executed_script	script22			{0-0:10.0.108.255,2}	--	--	--	Get, (Set)					
3	type	enum			5	--	--	--	Get, (Set)					n=4
4	execution_time	array[0..*](execution_time_date)				--	--	--	Get, Set					The schedule can be disabled with writing {{"FFFFFFFF", "FFFFFFFFF"}}
	Push action scheduler - Interval_03		22	0	0-3:15.0.4.255					M	M	M	M	
1	logical_name	octet_string[6]			00030F0004FF	--	--	--	Get					
2	executed_script	script22			{0-0:10.0.108.255,3}	--	--	--	Get, (Set)					
3	type	enum			5	--	--	--	Get, (Set)					n=4
4	execution_time	array[0..*](execution_time_date)				--	--	--	Get, Set					
23	Remote communication - Abstract Objects for Network Mgmt													
	Auto connect		29	2	0-0:2.1.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000020100FF	--	--	--	Get					
2	mode	enum			101	--	--	--	Get, Set					meter shall support all modes (0,101,102,103 and 104)
3	repetitions	unsigned			0	--	--	--	Get, Set					
4	repetition_delay	long-unsigned			0	--	--	--	Get, Set					
5	calling_window	array[0..*](window_element)				--	--	--	Get, Set					
6	destination_list	array[0..*]				--	--	--	Get, Set					Head-end IP address in Always-on Mode
1	connect	integer				--	--	--	Action					
	MAC address setup		43	0	0-0:25.2.0.255									
1	logical_name	octet_string[6]			0000190200FF	--	--	--	Get					
2	MAC address	octet_string				--	--	--	Get					
24	Remote communication - GSM/GPRS Setup Objects													
	GPRS modem setup		45	0	0-0:25.4.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000190400FF	--	--	--	Get					
2	APN	octet_string[0..64]				--	--	--	Get, Set					An APN with a size of 64 bytes at least is supported, i.e. [0..64] is mandatoty but can be longer
3	PIN_code	long-unsigned				--	--	--	Get, Set					
4	quality_of_service	quality_of_service_type				--	--	--	Get, Set					
	Modem Configuration		27	1	0-0:2.0.0.255					M	M	M	M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre-Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0000020000FF	--	--	--	Get					
2	comm_speed	enum				--	--	--	Get, Set					
3	initialization_string	array				--	--	--	Get, Set					
4	modem_profile	array				--	--	--	Get, Set					
	Auto Answer		28	2	0-0:2.2.0.255					M	M	M	M	
1	logical_name	octet_string[6]			0000020200FF	--	--	--	Get					
2	mode	enum			0	--	--	--	Get, Set					
3	listening_window	array[0..*]				--	--	--	Get, Set					Array[0] equals always listening
4	status	enum				--	--	--	Get, Set					
5	number_of_calls	unsigned				--	--	--	Get, Set					
6	number_of_rings	nr_rings_type				--	--	--	Get, Set					
7	list_of_allowed_callers	array[5..*](list_of_allowed_callers_element)				--	--	--	Get, Set					phone number is an ASCII coded octet-string of phone number length
	GPRS Keep Alive Time Interval		1	0	0-0:94.98.19.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E6213FF	--	--	--	Get					
2	value	structure { boolean:switch Long_unsigned: ideal_time Long_unsigned: Delay_retry_interval_value }			switch: enable/disable Ideal_time (30...1800)seconds, 60 Interval_value: (10...20) seconds, 10	--	--	Set	Get, Set					Switch Functionality enable=1/disable=0 Ideal_time: How often is the TCP heart beat package sent Delay_retry_interval_value: Retry delay if sending heart beat package failed
1	reset					--	--	--	--					
	Local Authentication protection		1	0	0-0:94.98.20.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E6214FF	--	--	--	Get					
2	value	structure { unsigned: failed attempts unsigned: lockout time }			failed attempts: (1..10) tmes lockout time: (1..180) minutes	--	--	Set	Get, Set					failed attempts: number of authentication failures after which the communication port is disabled lockout time: time, in minutes, for which a locked out communication channel stays disabled
	Disable/Enable Manual Demand Reset		1	0	0-0:94.98.27.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E621BFF	--	--	--	Get					
2	value	unsigned			0,1	--	--	Set	Get, Set					Manual Demand Reset button 0=disable,1=Enable
	International Mobile Station Equipment Identity (IMEI)		1	0	0-0:94.98.22.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E6216FF	--	--	--	Get					
2	value	visible_string[0..16]: IMEI (ASCII digits)				--	--	--	Get					Holds the IMEI of the communication module (if inserted), empty otherwise.
	Profile compression type		1	0	0-0:94.98.21.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E6215FF	--	--	--	Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Ming.(1)	1P	3P-DC	3P-CT	3P-CTPT	Remarks
2	value	long-unsigned				--	--	--	Get, Set					
	fraud Lock Time		1	0	0-0:94.98.24.255					M	M	M	M	
1	logical_name	octet_string[6]			00005E6218FF	--	--	--	Get					this object indicates lock time duration fot the same type fraud. It means the same type fraud will not be recorded repeatedly if the duration of occurence is less than fraud lock time duration.
2	value	unsigned			Choice (1 min, 60 min) Defalt=15min	--	--	--	Get, Set					
	Compact data		62	0	0-0:66.0.0.255									
1	logical_name	octet_string[6]			0000420000FF	--	--	--	Get					
2	compact_buffer	array							Get					
3	Capture_objects	array[n]							Get, Set					
4	Template_id	octet_string[1]							Get, Set					
5	Template_description	octet_string							Get, Set					
	Capture_method								Get, Set					
1	reset					--	--	--	Action					
2	reset					--	--	--	Actiom					