

Modbus Register Map - Smart-UPS

Models with prefix SMT, SMX, SURTD, and SRT

Part number: 990-9840

Notes:

- 1. All data is transmitted MSB first (i.e. big-endian).
- 2. Modbus Serial RTU is supported on NMC model AP9635, and Modbus TCP is supported on NMC models AP9635, AP9630, AP9631 and AP9537SUM.
- 3. Status bits are atomic within a single Modbus register or data point. User should not look for consistency across multiple registers, only within a single register
- 4. Single register reads of undefined registers will return an error. Block reads that begin with a valid register will not return an error but will return zeros for undefined registers.
- 5. UPS Models with the prefix SURTD support only read functionality via Modbus.
- 6. Registers are one word in size.
- 7. Signed numbers are two's complement.
- 8. Bit number 0 is least significant bit.
- 9. Writes to undefined registers will return an error.
- 10. Data Type column: "INT16" = signed 16-bit integer, "UINT16" = unsigned 16-bit integer, "INT32" = signed 32-bit integer, "UINT32" = unsigned 32-bit integer, "ENUM" is an INT16 or INT32 value (1 or 2 registers) that maps to a defined list of states, "ASCII" = the printable ASCII subset from 0x20 0x7E (2 characters per register, see end of map for additional info), "BOOLEAN" = a single bit, 0 or 1.
- 11. ASCII (Strings)
 - Unsupported strings will be filled with zeros (0x00).
 - Strings are not NULL terminated.
 - Unused characters at the end of a string will be filled with 0x20 (space).
 - · When reading strings, the trailing spaces can be stripped
 - When writing strings:
 - · The string should be left-justified and padded with spaces to meet the size requirement.
 - · It must only contain ASCII characters and it should not contain a NULL terminator.
 - · No partial string writes are allowed
- 12. "Absolute Starting Register Address" = 0 (the column heading used in this table) is equivalent to "Register 40001" in Modicon terminology, which is address zero when transmitted over the wire.
- 13. Individual bit support for the UPS models (SMX/SMT, SRT and SURTD) is only indicated for the UPSStatus_BF register. For other registers, support can vary among different models and different firmware revisions, so support is only indicated at the register level, not the individual bit level.

Use this Modbus Register Map for UPS models **SRC2KUXI**, **src3KUXI**, and **src3KUXIX709**. Supported registers for SRT model UPS also apply to those SRC models. For all other UPS models with the prefix SRC, use the Modbus Register Map entitled "Modbus Register Map for Smart-UPS excluding models with prefix SMT, SMX, SURTD, and SRT", available on www.apc.com.



Note: Temperature and Humidity sensors attached to the UIO port(s) of the AP9631 and AP9635 NMC are not supported via Modbus.

For detailed modbus configuration settings, please see:

- The AP9635 User Guide, and the Modbus Documentation Addendum on the APC website, www.apc.com
- Application Note #176, "Modbus Implementation in APC Smart-UPS" on the APC website, www.apc.com

For more information on the Modbus protocol, Modbus data formats, and Modbus troubleshooting, see Application Note #168 "Modbus Installation and Troubleshooting for AP9635 Network Management Card", available on www.apc.com.

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Modicon Standard	Absolute	Absolute	Bit	Data Point	Length	Data Type	Scale	Description	Permission	SMX/SMT	SRT	SURTD
Register Number	Starting	Starting			# registers		(Divide Reading					
	Register	Register					By)					
	Address,	Address,					Dy)					
	(Hexadecimal)	(Decimal)										
								The purpose of this register is to convey the mode of operation of the UPS at macro				
								level. Anytime the value of this usage changes the UPSStatusChangeCause EN				
								usage will change as well. This usage is NOT intended to be a direct mapping to the				
40001	0000	0		UPSStatus_BF	2			internal UPS state machine.	ReadOnly	х	Х	х
								StatusChange-Modifier: Toggled as necessary to make the monitoring software aware				
								of status changes that would otherwise not be obvious (so that the change cause				
								usage will be acted upon). Example: changing between commanded bypass and manual bypass. Implementations can choose to toggle this bit at every transition, or				
			0			BOOLEAN		only as necessary. Changes from 0 to 1 and from 1 to 0 must be acted upon.				x
			U			BOOLEAN		StateOnline-State: Indicates that the power for the output is being sourced from the		-		Χ
			1			BOOLEAN		input. Mutually exclusive with other state bits.		×	x	x
			<u> </u>			BOOLLAIN		StateOnBattery-State: Indicates that the power for the output is being sourced from the		^	^	_^
			2			BOOLEAN		battery. Mutually exclusive with other state bits.		×	x	х
			<u> </u>			20022		StateBypass-State: Indicates that the output is being powered by the input, without any		~		
								power being processed through the UPS electronics. Mutually exclusive with other				
			3			BOOLEAN		state bits.			x	х
								StateOutputOff-State: Indicates that the output is not powered through the UPS				
								(including any internal bypass paths). Some examples are: Off because of Fault or				
			4			BOOLEAN		Low-Battery. Mutually exclusive with other state bits.		х	Х	Х
								Fault-Modifier: Indicates that a fault of any severity (Warning, or Critical) is present in				
			5			BOOLEAN		the system, which may have caused a transition.		х	Х	Х
			6			BOOLEAN		InputBad-Modifier: Indicates that the input is not acceptable.		Х	Х	X
			7			BOOLEAN		Test-Modifier: Indicates that a test is in progress.		х	Х	Х
								Design of the second of the se				
			8			BOOLEAN		PendingOutputOn-Modifier: Indicates that the state is pending output on (either on line, on battery, or bypass). Should only be set in combination with StateOutputOff.		.,	x	.,
			0			BOOLEAN		PendingOutputOff-Modifier: Indicates that the state is pending output off. Set		Х	X	Х
								whenever the UPS is in process of turning off, or immediately when on battery for bad				
								input. Will never be set in combination with StateOutputOff. When set, the monitoring				
								software should watch RunTimeRemaining. When / if run time is less than or equal to				
								the software's minimum run time threshold, the software should start the shutdown				
								process. This bit may also be set in conditions other than above, e.g. in bypass due to				
			9			BOOLEAN		fault.		x	х	х
								Commanded-Modifier: Indictates that UPS that user transferred to bypass, but UPS is				
1			10			BOOLEAN		still functioning. If Bypass fails, the Inverter will start up.			х	
			11			BOOLEAN		Reserved				
		· · · · · · · · · · · · · · · · · · ·	12			BOOLEAN		Reserved				
<u> </u>								HighEfficiency-Modifier: Indicates that the UPS is operating in a high efficiency mode			·	
			13			BOOLEAN		(eg. green mode, Economy Mode, ECO Mode).		х	Х	
								InformationalAlert-Modifier: Indicates that the UPS has an informational alert active				
ļ			14			BOOLEAN		(eg. Lifetime Status near end).		х		ļ
ļ			15			BOOLEAN		FaultState-Modifier: Indicates that the UPS is operating in a fault state.		х	Х	ļ
-			16 17		<u> </u>	BOOLEAN BOOLEAN		Reserved Reserved				1
 			17		1	BOOLEAN		Reserved		 		
			10		1	BUULEAN		MainsBadState-Modifier: Indicates that the UPS is operating in a state due to the		+		
1			19			BOOLEAN		Mains input not acceptable (eq. TempBypass or due to bad Mains input).		[×	
1			19		1	DOCLLAIN		FaultRecoveryState-Modifier: Indicates that the UPS is operating in a state due to	1	 	^	1
1			20			BOOLEAN		recovery from a fault state.			x	
						SOCILINA		OverloadState-Modifier: Indicates that the UPS is operating in a state due to an			^	
1			21			BOOLEAN		overload.		[x	
			22-31		İ	BOOLEAN		Reserved	İ	1		
				ı	•							

Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Scale (Divide Reading By)	Description	Permission	SMX/SMT	SRT	SURTD
40003	0002	2		UPSStatusChangeCause_EN	1	ENUM		Changes in this value without a corresponding change in UPSStatus_BF should be ignored. This usage is meant to capture the reason why the new status was achieved, not the reason why the old status is no longer valid.	ReadOnly	x	x	x
								0: SystemInitialization: Indicates that the present state is achieved due to				
								microprocessor reset. Value at start-up. 1: HighInputVoltage:A high input voltage condition caused the transition.				
								2: LowInputVoltage: A low input voltage condition caused the transition.	1			
								3: DistortedInput: A bad input condition (distorted voltage or unstable frequency,				
								"turbo") caused the transition. 4: RapidChangeOfInputVoltage: A rapid change in the input voltage ("dV/dt") caused				
								the transition.				
								5: HighInputFrequency: A high input frequency caused the transition.				
								6: LowInputFrequency: A low input frequency caused the transition.				
								7: FreqAndOrPhaseDifference: A difference in frequency and/or phase between the input and the system caused the transition.				
								8: AcceptableInput: An acceptable input (both voltage and frequency) caused the				
								transition.				
								9: AutomaticTest: Indicates that a test has been initiated via the automatic timer in the UPS (or other programatic determination, e.g., power on). This can be any test, e.g., replace battery test or run time calibration.				
								10: TestEnded: Indicates that a test has been either completed (successfully or				
								unsuccessfully) or aborted to cause the transition. Note that the only aborted causes that will be captured with this value are the ones that result in the same status after the				
								test has been aborted. For example, a load change during a run time calibration that	<u> </u>			
								causes the test to abort and the status to return to on-line. As opposed to a local UI				
								command (off button) that causes the run time calibration to be aborted but the status				
								does not change to on-line. 11: LocalUICommand: Indicates the user pressed the on/off or other button locally to				
								cause the transition. Includes local terminal mode interface if applicable.				
								12: ProtocolCommand: Indicates that a command received over the smart interface				
								has caused the state change.				
								13: LowBatteryVoltage: A low battery voltage caused the transition. This would be used for low battery shutdown, but may also be used when transitioning between other				
								states due to a low battery voltage criteria.				
								14: GeneralError: A general error caused the transistion. GeneralError_BF usage				
								contains the specific fault if still valid. 15: PowerSystemError-A power system error caused the transistion.				
								PowerSystemError_BF usage contains the specific fault if still valid.				
								16: BatterySystemError: A battery system error caused the transistion.				
								BatterySystemError_BF usage contains the specific fault if still valid. 17: ErrorCleared: Indicates that the system changed states due to an error clearing.	1			
								(Some errors may still exist but a state change occurred even with those errors				
								present.).				
								18: AutomaticRestart: Indicates that internal conditions have met to allow the output to				
								turn on, after a battery depletion. (8051 may not use this one, because it requires EEPROM storage of the state).				
								19: DistortedInverterOutput: Indicates that the system changed states due to a				
								distorted waveform detected on the output ("turbo").				
								20: InverterOutputAcceptable: Indicates that the system changed states due to no further distortion on the output waveform.				
			<u> </u>					21: EPOInterface: Indicates that an input was received at the UPS through the EPO				
								interface to turn off the output.				
			1		+			22: InputPhaseDeltaOutOfRange: Indicates input phase delta is out of limit. 23: InputNeutralNotConnected: Indicates that neutral leg is missing.				1
			 		+			24: ATSTransfer: Indicates that state change was caused due to ATS operation.				+
						İ		25: ConfigurationChange: Indicates that state change was caused by a configuration				
					+	-		change (eg. a change in AllowedOperatingMode_BF).				1
					+			26: AlertAsserted: An informational alert has caused the transistion. 27: AlertCleared: Indicates that the system changed states due to an Informational				1
						<u> </u>		alert acknowledge or cleared.				
								28: PlugRatingExceeded: Indicates transition happened because Input current				
								exceeded plug rating. Example: when operating in "boost" mode when input current exceeds line cord rating transition to battery.				
						1		29: OutletGroupStateChange: Indicates the transition occured due to Main Outlet	1			
								Group (MOG) or Switched Outlet Group (SOG) state change.				
								30: FailureBypassExpired: Indicates that load was turned off due to inability to				
<u> </u>			1	l	I	ı		continue operating in failure bypass.	1			

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								The present status of the outlet group. Note: Process bits are defined for sequences of multiple state transitions and are not defined for single transitions. Process bits are				
40004	0003	3		MOG.OutletStatus_BF	2			mutually exclusive. State bits are mutually exclusive.	ReadOnly	х	х	
			0			BOOLEAN		StateOn-State: Indicates the outlet is powered. Mutually exclusive with other state bits.				
			Ť					StateOff-State: Indicates the outlet is not powered. Mutually exclusive with other state				
			1			BOOLEAN		bits. ProcessReboot-Modifier: Indicates that a reboot command was issued and is still in				
								progress. A reboot command can be issued by writing to the command bitfield or by				
			2			BOOLEAN		writing timers. Mutually exclusive with other process bits.				
								ProcessShutdown-Modifier: Indicates that shutdown command was issued and is still in progress. A shutdown command can be issued by writing to the command bitfield or				
			3			BOOLEAN		by writing timers. Mutually exclusive with other process bits.				
								ProcessSleep-Modifier: Indicates that a sleep command was issued and is still in progress. A sleep command can be issued by writing to the command bitfield, or by				
								writing timers. Sleep is indicated rather than reboot if the StayOffCountdown EN timer				
								is initially loaded with a value greater than 300 seconds. Mutually exclusive with other				
			4 5		-	BOOLEAN BOOLEAN		process bits. Reserved				
			6			BOOLEAN		Reserved				
			7			BOOLEAN	-	PendingLoadShed-Modifier: Indicates that one or more condition exists that could potentially could turn the outlet off.				
						BOOLEAN		PendingOnDelay-Modifier: Indicates the outlet has an active process that requires an				
			8			BOOLEAN		on delay when switching an outlet from off to on.				
			9			BOOLEAN		PendingOffDelay-Modifier: Indicates the outlet has an active process that requires an off delay when switching an outlet from on to off.				
			10			BOOLEAN		PendingOnACPresence-Modifier: Indicates the outlet will not turn on unless AC input power is available.				
			10					PendingOnMinRuntime-Modifier: Indicates the outlet will not turn on unless sufficient				
			11			BOOLEAN		runtime is available.				
			12			BOOLEAN		MemberGroupProcess1-Modifier: Indicates the outlet is participating in the 1st "group process command".				
			13			BOOLEAN		MemberGroupProcess2-Modifier: Indicates the outlet is participating in the 2nd "group process command".				
			14			BOOLEAN		LowRuntime-Modifier: Indicates the run time is below the setting for the outlet group.				
			15-31			BOOLEAN		Reserved				
40006	0005	5		Reserved	1				ReadOnly			
40007 40009	0006 0008	<u>6</u> 8		SOG[0].OutletStatus_BF Reserved	2	BOOLEAN		SEE BIT DESCRIPTIONS ABOVE FOR MOG.OutletStatus_BF.	ReadOnly ReadOnly	Х	Х	
40010	0009	9		SOG[1].OutletStatus_BF	2	BOOLEAN		SEE BIT DESCRIPTIONS ABOVE FOR MOG.OutletStatus_BF.	ReadOnly	Х	Х	
40012	000B	11		Reserved	1				ReadOnly			
40013 40015-40018	000C 000E-0011	12 14-17		SOG[2].OutletStatus_BF Reserved	2	BOOLEAN		SEE BIT DESCRIPTIONS ABOVE FOR MOG.OutletStatus_BF.	ReadOnly ReadOnly	Х	Х	
122.2 .00.0												
40019	0012	18		SimpleSignalingStatus BF	1			The Simple Signal Output register. This is what the actual simple signal port should have as output. This usage should only be used for hosting the simple signaling port.	ReadOnly	×	×	×
40019	0012	10		omproorginalingotatus_bl				PowerFailure: Indicates that the input power has failed. Signal will be driven with	ReadOnly		^	^
			0			BOOLEAN		output on or off. Complement of InputStatus.Acceptable.				
								ShutdownImminent: Indicates that the UPS is committed to disconnecting power from its output(s). The bit is set when UPSStatus_BF.PendingOutputOff is set AND				
								RunTimeRemaining is less than or equal to LowRunTimeWarningSetting OR any of				
								the following depending upon the UPS configuration: * For UPS with an unswitched outlet group - when the MOG.TurnOffCountdown EN is				
								greater than -1.				
								For UPS with no unswitched outlet group and with switched outlet group(s) - when the "last commanded" SOG[x].TurnOffCountdown_EN is greater than -1.				
								In response to this bit becoming set, the device using the simple signalling interface				
								should drive request to shutdown, if it hasn't already done so (this ensures that				
						DOO! 541:		TurnOffCountdown_EN timer will be set to at least the minimum time needed by the				
			2-15			BOOLEAN BOOLEAN		simple signaling host). Reserved				
	l .		2 10	l .		DOOLLAIN	1	1.000.100	1			

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								Faults that are not contained in a more specific system fault usage. These may indicate current status or latched status depending upon the mode of operation of the				
40020	0013	19		GeneralError_BF	1			UPS	ReadOnly	х	х	x
			0			BOOLEAN		SiteWiring: A site wiring fault exists.				
			1			BOOLEAN		EEPROM: A eeprom fault exists.				
			3		-	BOOLEAN BOOLEAN		ADConverter: An A/D converter fault exists. LogicPowerSupply: A logic power supply fault exists.		1		
			4		†	BOOLEAN		InternalCommunication: A fault in the processor communication system.		†		+
			5			BOOLEAN		UlButton: One (or more) of the Front Panel Buttons is not working properly.				
								3,				
			6			BOOLEAN		NeedsFactorySetup: Factory setup is required. Example: Board sets are mismatched.				
			7			BOOLEAN		EPOActive: There is an active or unacknowledged Emergency Power Off signal.				
			8			BOOLEAN		FirmwareMismatch: There is a mismatched firmware version, firmware upgrade is				
			9		†	BOOLEAN		required. Oscillator: The clock source for one or more microprocessors has failed.		†		+
			3			BOOLLAIN		MeasurementMismatch: There is a discrepancy between two or more redundant				
			10			BOOLEAN		measurements.				
			11			BOOLEAN		Subsystem: A subsystem fault exists.				
			12-15			BOOLEAN		Reserved				
10001	0044			5 0 4 5 55				Faults in the power processing system. These may indicate current status or latched	D 10 1			
40021	0014	20	0	PowerSystemError_BF	2	BOOLEAN		status depending upon the mode of operation of the UPS. OutputOverload:The output is overloaded (either real or apparent power).	ReadOnly	Х	Х	X
			1			BOOLEAN		OutputShortCircuit: The output is short circuited.				+
			2			BOOLEAN		OutputOvervoltage: The output voltage is too high.				
			3			BOOLEAN		TransformerDCImbalance: The DC component of the transformer's current is too high.				
			4			BOOLEAN		Overtemperature: Indicates that a component's temperature is too high.				
			5		-	BOOLEAN		BackfeedRelay: The backfeed relay (or its driver) has a fault. AVRRelay: An AVR relay (or its driver) has a fault.		1		
			6 7		†	BOOLEAN BOOLEAN		PFCInputRelay: A PFC input relay (or its driver) has a fault.		1		+
			8			BOOLEAN		OutputRelay: An output relay (or its driver) has a fault.				
			9			BOOLEAN		BypassRelay: A bypass relay (or its driver) has a fault.				
			10			BOOLEAN		Fan: A fan fault exists.				
			11			BOOLEAN		PFC: A PFC fault exists.				
			12 13			BOOLEAN BOOLEAN		DCBusOvervoltage: A DC bus voltage is too high. Inverter: An inverter fault exists.				1
			14			BOOLEAN		OverCurrent: Bang-Bang or IGBT fault.		-		+
			15			BOOLEAN		BypassPFCRelay: A Bypass PFC input relay (or its driver) has a fault.				+
			16		1	BOOLEAN		BusSoftStart: A DC bus soft start fault exists.				
			17-31			BOOLEAN		Reserved				
								Faults in the battery system. These may indicate current status or latched status				
40023	0016	22	0	BatterySystemError_BF	1	BOOLEAN		depending upon the mode of operation of the UPS. Disconnected: Indicates that the battery is electrically disconnected (missing).	ReadOnly	Х	Х	Х
			1			BOOLEAN		Overvoltage: Indicates that the battery voltage is too high.		-		+
			2			BOOLEAN		NeedsReplacement: Indicates that the battery is at the end of its service life.				+
			T -		1			OvertemperatureCritical: Indicates that the battery temperature has exceeded a critical				
			3			BOOLEAN		level. (Exclusive with OvertemperatureWarning)				
			4			BOOLEAN		Charger: A battery charger fault exists.				
			5 6		.	BOOLEAN		TemperatureSensor: A battery temperature sensor fault exists.	1			+
			0			BOOLEAN		BusSoftStart: A battery bus soft start fault exists. OvertemperatureWarning: Indicates that the battery temperature has exceeded a		-		+
			7			BOOLEAN		warning level. (Exclusive with OvertemperatureCritical)				
			8		1	BOOLEAN		GeneralError: A specific error cannot be determined.	İ			
								·				
			9		ļ	BOOLEAN		Communication: A communication error between the battery subsystem and the host.				
			10			BOOLEAN		DisconnectedFrame: Indicates that one or more battery frames are electrically disconnected (missing).				
			10		 	BOOLEAN		FirmwareMismatch: There is a mismatched firmware version, firmware upgrade is	 	 		+-
			11		1	BOOLEAN		required.				
			12-15			BOOLEAN		Reserved				

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40024	0017	23		ReplaceBatteryTestStatus BF	4			This is the result of the ReplaceBatteryTest, or internal test. This usage should be used for logging purposes. The pass / fail result of the replace battery test will directly affect the BatterySystemError_BF -> NeedsReplacement bit. This usage is sticky, and remembers last state until a new status is generated. Upon initialization, all bits may be reset.	ReadOnly	X	x	X
40024	0017	23		Treplace Datterly residiatus_Di	'				ReadOffig	^	^	^
			0			BOOLEAN BOOLEAN		Pending: Replace battery test is pending (high level acknowledgement of command). InProgress: Replace battery test is in progress.				
			2			BOOLEAN		Passed: Replace battery test passed (completed successfully).				
			3			BOOLEAN		Failed: Replace battery test failed (completed unsuccessfully).				
			4			BOOLEAN		Refused: Replace battery test was refused (check "result modifier" bits for potentially additional details).				
			5			BOOLEAN		Aborted: Replace battery test was aborted (check "result modifier" and "source modifier" bits for potentially additional details).				
								Protocol-Source modifier: the protocol is the origin for initiation or abortion of the				
			6			BOOLEAN		replace battery test. LocalUI-Source modifier: the local user interface is the origin for initiation or abortion				
			7			BOOLEAN		of the replace battery test. Includes local terminal mode interface if applicable.				
			8			BOOLEAN		Internal-Source modifier: internal control is the origin for initiation or abortion of the replace battery test.				
								InvalidState-Result modifier: invalid UPS operating state (e.g., shutdown pending,				
			9			BOOLEAN		output off, UPS in bypass, input voltage not acceptable). InternalFault-Result modifier: an internal fault exists (e.g., battery is missing, inverter				
			10			BOOLEAN		failure). Also, overload in progress which is not in the error usages.				
								StateOfChargeNotAcceptable-Result modifier: the battery state of charge is not				
			11 12-15			BOOLEAN BOOLEAN		acceptable. Reserved				
			12 10			BOOLLAN		This is the result of the RunTimeCalCommand_BF. This usage should be used for				
40025	0018	24		RunTimeCalibrationStatus BF	1			logging purposes. This usage is sticky, and remembers last value until a new value is generated. Upon initialization, all bits may be reset.	ReadOnly	×	×	×
40025	0010	24		Trainine Cambration Ctatus_bi	·			generated. Opon mittalization, an bits may be reset.	readonly	^	^	
			0			BOOLEAN		Pending: Run time calibration is pending (high level acknowledgement of command).				
			2			BOOLEAN BOOLEAN		InProgress: Run time calibration is in progress. Passed: Run time calibration passed (completed successfully).				
			3			BOOLEAN		Failed: Run time calibration failed (completed unsuccessfully).				
								Refused: Run time calibration was refused (check "result modifier" bits for potential				
			4			BOOLEAN		additional details). Aborted: Run time calibration was aborted (check "result modifier" and "source				
			5			BOOLEAN		modifier" bits for potentially additional details).				
			6			BOOLEAN		Protocol-Source modifier: the protocol is the origin for initiation or abortion of the run time calibration.				
			"			BOOLLAN						
			7			BOOLEAN		LocalUI-Source modifier: the local user interface is the origin for initiation or abortion of the run time calibration. Includes local terminal mode interface if applicable.				
								Internal-Source modifier: internal control is the origin for initiation or abortion of the run time calibration.				
			8			BOOLEAN		Note: Internal should be reported if there is a "scheduled" internal test eg. every 3 months. Internal should also be used when a "natural" test completes successfully.				
			9			BOOLEAN		InvalidState-Result modifier: invalid UPS operating state (e.g., shutdown pending, output off, ups in bypass, input voltage not acceptable).				
			10			BOOLEAN		InternalFault-Result modifier: an internal fault exists (e.g., battery is missing, inverter failure). Also, overload in progress which is not in the error usages.				
								StateOfChargeNotAcceptable-Result modifier: the battery state of charge is not				
			11 12			BOOLEAN BOOLEAN		acceptable. LoadChange-Result modifier: the load changed.				
			13			BOOLEAN		ACInputNotAcceptable-Result modifier: the AC input is not acceptable so the run time calibration was aborted.				
			14			BOOLEAN		LoadTooLow-Result modifier: the load is too low to recalibrate the run time accurately.				
			15			BOOLEAN		OverChargeInProgress-Result modifier: a battery overcharge is currently in progress, therefore the run time calibration is refused (to prevent an inaccurate result).				

			1					2				T
Modicon Standard	Absolute	Absolute	Bit	Data Point	Length	Data Type	Scale	Description	Permission	SMX/SMT	SRT	SURTD
Register Number	Starting	Starting			# registers		(Divide					1
	Register	Register					Reading					1
	Address,	Address,					By)					1
	(Hexadecimal)	(Decimal)										
40026	0019	25		Battery.LifeTimeStatus BF	1			Status of predictive maintenance for the battery.	ReadOnly	Х	X	
40020	0010	20	0	Battery.Enermicotatas_Bi	· ·	BOOLEAN		LifeTimeStatusOK: Lifetime is OK. Mutually exclusive with bits 1 and 2.	recacing	^		
			1			BOOLEAN		LifeTimeNearEnd: Lifetime is near end. Mutually exclusive with bits 0 and 2.				+
			2			BOOLEAN		LifeTimeExceeded: Lifetime is exceeded. Mutually exclusive with bits 0 and 1.				_
			3			BOOLEAN		LifeTimeNearEndAcknowledged: Alert has been acknowledged but still exists.				_
			4			BOOLEAN		LifeTimeExceededAcknowledged: Alert has been acknowledged but still exists.				+
			 			BOOLDW		MeasuredLifeTimeNearEnd: The measured liifetime is near the end. For a battery this				+
								is when the capacity is nearing the threshold for replacement. Mutually exclusive with				1
			5			BOOLEAN		bit 5, and can be indicated independently of bits 1 and 2.				1
						DOOLLAIV		MeasuredLifeTimeNearEndAcknowledged: Alert has been acknowledged but still				+
			6			BOOLEAN		exists.				1
			7-15			BOOLEAN		Reserved				+
40027	001A	26	, .0	UserInterfaceStatus BF	1	BOOLDW		Status of local User Interface (both audible and visible).	ReadOnly	х	Х	х
10027	00171		0			BOOLEAN		ContinuousTestInProgress: The continuous local UI test is in progress.	- roduomy		Α	- ^ -
						BOOLDW		AudibleAlarmInProgress: There is an active alarm that is causing the local UI beeper				+
			1			BOOLEAN		to sound. This bit indicates that the command to mute is available.				
			<u> </u>			BOOLDW		AudibleAlarmMuted: There is an active alarm that is currently being muted. This bit				+
			2			BOOLEAN		indicates that the command to cancel mute is available.				1
						DOOLLAIV		AnyButtonPressedRecently: A user interface button has been pressed within the last				+
			3			BOOLEAN		10 seconds.				1
			4-15			BOOLEAN		Reserved				+
								The number of seconds until power will go out, when running on battery. This should				
								never be compared as an actual value, but should be compared as "less than or equal				
40129	0800	128		RunTimeRemaining	2	UINT32	1	to." Some UPS's will max out at 65535 seconds (18.2 hours).	ReadOnly	Х	Х	Х
40131	0082	130		StateOfCharge_Pct	1	UINT16	512	The percent state of charge in the battery.	ReadOnly	Х	Х	Х
40132	0083	131		Battery.Positive.VoltageDC	1	INT16	32	Measured battery voltage - positive battery bus.	ReadOnly	Х	Х	Х
40133	0084	132		Battery.Negative.VoltageDC	1	INT16	32	Measured battery voltage - negative battery bus.	ReadOnly		Х	
								Theoretical battery replacement date, days since 1999 (January 1, 2000 = 0). It should				
40134	0085	133		Battery.Date	1	UINT16	1	not be interpreted to be more accurate than a month.	ReadOnly	Х	Х	Х
40135	0086	134		Reserved	1				ReadOnly			
40136	0087	135		Battery.Temperature	1	INT16	128	Battery temperature in Degrees C.	ReadOnly	Х	Х	Х
40137	0088	136		Output[0].RealPower_Pct	1	UINT16	256	Phase 1 - Measured real power as a percent of full rating.	ReadOnly	Х	Х	Х
40138	0089	137		Output[1].RealPower_Pct	1	UINT16	256	Phase 2 - Measured real power as a percent of full rating.	ReadOnly			Х
40139	A800	138		Output[0].ApparentPower_Pct	1	UINT16	256	Phase 1 - Measured apparent power as a percent of full rating.	ReadOnly	Х	Х	х
40140	008B	139		Output[1].ApparentPower_Pct	1	UINT16	256	Phase 2 - Measured apparent power as a percent of full rating.	ReadOnly			Х
40141	008C	140		Output[0].CurrentAC	1	UINT16	32	Phase 1 - Measured AC RMS Current.	ReadOnly	Х	Х	Х
40142	008D	141		Output[1].CurrentAC	1	UINT16	32	Phase 2 - Measured AC RMS Current.	ReadOnly			Х
40143	008E	142		Output[0].VoltageAC	1	UINT16	64	Phase 1 - Measured Output Voltage.	ReadOnly	Х	Х	Х
40144	008F	143		Output[1].VoltageAC	1	UINT16	64	Phase 2 - Measured Output Voltage.	ReadOnly			Х
40145	0090	144		Output.Frequency	1	UINT16	128	Measured frequency on the output.	ReadOnly	Х	Х	Х
40146	0091	145		Output.Energy	2	UINT16	1	This is the number of Watt Hours consumed by the output load.	ReadOnly	х	Х	

Society of the control of the contro	Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Scale (Divide Reading By)	Description	Permission	SMX/SMT	SRT	SURTD
40149 0933 147 Spass inputSollia, BF 1 BOSCHAY BOSS InputSollia, BF 1 BOCCHAY BO									Indicates the status of the input voltage for logging data point NOT for event. These				
40148 0069 147 Byses InputStatus, IPF 1 Separate InputStatus, IPF 1 Separate InputStatus, IPF 1 Separate InputStatus, IPF 1 Separate InputStatus, IPF 1 Separate InputStatus, IPF 1 Separate InputStatus InputStatus, IPF 1 Separate InputStatus In													
BOOLEAN Continue													
BOOLEAN Containing are method to that the LPS can power the output with the past secure.	40148	0093	147		Bypass.InputStatus_BF	1				ReadOnly		Х	Х
Privating-Acceptable Interface of the Secretary of the Controllings and frequency is acceptable but at least control of the Secretary of the							DOOL FAN						
BOOLEAN Committee of the committee o				- U		+	BOOLEAN						
2 BOOLEAN Waterprotects and the page values to be acceptable. 3 BOOLEAN Waterprotects but the repair values is too lot be acceptable. 4 BOOLEAN Control of the page values and the page values are to the page values in the page values are too be acceptable. 5 BOOLEAN Control of the page values are too the page values and the page values are too the page values and the page values are too the page values and the page values are too the page values and the page values are too the page values and the page values are too the page values and the page values are too the page values and the page values are too the page values and the page values are too the page values and the page values are too too the page values and the page values are too the page values and the page values are too too the page values and the page values are too too the page values and the page values are too too the page values and the page values are too too the page values and the page values are too too too too too too too too too to													
SOCIENT Violage Toolship, Indicates that the injust voltage is too high to be acceptable.				1									
Districts indicates a districted input waveform. The input voltage is too different from information of the frequency in smorting to date to rate, or the requency in smorting to date to rate, or the requency in smorting to date to rate, or the requency in smorting to date to rate, or the requency in smorting the requency in the re													
BOOLEAN BOOLEA				3		_	BOOLEAN						
8 SOCIEN Socied indicates that the UFS is attempting to amplify the input voltage. Not applicable for bypass incid. 8 SOCIEN Socied indicates that the UFS is attempting to attenuate the imput voltage. Not applicable for bypass incid. 8 SOCIEN Socied in the input is the sequency in insaturably too low. 9 SOCIEN Socied in the input indicates frequently insaturably too low. 9 SOCIEN Socied in the input indicates frequently insaturably too low. 10 SOCIEN Socied in the input indicates frequently insaturably too low. 10 SOCIEN Socied in the input indicates frequently insaturably too low. 11 SOCIEN Socied in the input insaturably too low. 11 SOCIEN Socied in the input insaturably too low. 11 SOCIEN Socied in the input insaturably too low. 12 SOCIEN Socied in the input insaturably too low. 13 SOCIEN Socied in the input insaturably too low. 14 SOCIEN Socied in the input insaturably too low. 15 SOCIEN Socied in the input insaturably too low. 16 SOCIEN Socied in the input insaturably too low. 17 Socied in the input insaturably too low. 18 SOCIEN Socied in the input insaturably too low. 19 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied in the input insaturably too low. 10 SOCIEN Socied insaturably too low. 10 SOCIEN Socied insaturably too low. 10 SOCIEN Socied insaturably too low. 10 SOCIEN Socied insaturably too low. 10 SOCIEN Socied Socied insaturably too low. 10 SOCIEN Socied Socied Insaturably too low. 10 SOCIEN Soc													
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10 BOOLEAN SOULEAN Neutral Nation Connected - Indicates that the Neutral connection is missing.				9			BOOLEAN						
11 BOOLEAN Reserved				10			POOL EAN						
12 BOOLEAN Reserved													
14 BOOLEAN Reserved PoweringLoad: This bit indicates that the input is the source of power to the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load is from the bypass source of power to the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load is from the bypass source of power to the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates that the input is the source of power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates that the input is the source of power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. Bypass/yelm.nput/status, BF PoweringLoad indicates the power for the load e.g. BeadOnly x x Developed indicates the power for the load is powering.oad indicates the power for the load is powering.oad indicates the power for the load is powering.oad indicates the power for the load is powering.oad indicates the power for the load is powering.oad indicates the power for the load is powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad indicates the powering.oad in													
BOOLEAN BypassSystem InputStatus, B.F. PoweringLoad: This bit indicates that the input is the source of power to the load e.g. Bypass Frequency 40150 0096 149 Bypass Frequency 1 LiJNT16 128 Measured Voltage on the bypass input for separate bypass feed. ReadOnly: x 40151 0096 150 papt InputStatus B.F. PoweringLoad in the bypass input for separate bypass feed. ReadOnly: x 40152 0097 151 input(1) VoltageAC 1 UINT16 64 Measured Voltage on the bypass input for separate bypass feed. ReadOnly: x 40153 0098 152 input(1) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40154 0099 153 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 153 input(2) VoltageAC 1 UINT16 64 Phase 3 Measured Input Voltage. ReadOnly: x x 40155 0099 154 Efficiency EN 1 ENUM Read Seed of the Phase 3 Measured Input Voltage. ReadOnly: x x 40155 0099 155 input(2) VoltageAC 1 UINT16 64 Phase 3 Measured Input Voltage. ReadOnly: x x 40155 0099 155 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 155 input(2) VoltageAC 1 UINT16 64 Phase 3 Measured Input Voltage. ReadOnly: x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured Input Voltage. ReadOnly: x x x x 40155 0099 150 input(2) VoltageAC 1 UINT16 64 Phase 2 Measured In													
Bypass/System.InputStatus_BF. PoweringLoad indicates the power for the load is from the Uppass source. 40149				14			BOOLEAN						
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### Efficiency is defined as RealPowerIn. Apparent Power (VA) #### Efficiency EN ### 154				1		1							^
128 0-32768: Efficiency percentage (note divisor so for example 12800 is 100%). -1: NotAvailable: This is exported when the efficiency is unavailable or extremely low and a more specific reason is not known or supported. -1: NotAvailable: This is not known or supported is unavailable or extremely low and a more specific reason is not known or supported. -1: NotAvailable: This is exported when the efficiency. -1: NotAvailable: This is exported when the efficiency is 0. -1: NotAvailable: This is exported when the efficiency is unavailable or extremely low and a more specific reason is not known or son to known or son to known or son to known or son to known or supported when the efficiency. -1: NotAvailable: This is exported when the efficiency is not known or son to known or son to known or son to known or son to known or son to known or supported when the efficiency. -1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.	10101	0000			mp a q = j, r = mag a r =		0						
-1: NotAvailable: This is reported when the efficiency is unavailable or extremely low and a more specific reason is not known or supported. 1 -2: LoadTooLow: Load is too low to report efficiency. 1 -3: OutputOff: The output is off and efficiency is 0. 1 -4: OnBattery: Efficiency not measured or calculated in this mode. 1 -5: InBypass: Efficiency not measured or calculated in this mode. 2 : InBypass: Efficiency not measured or calculated in this mode. 3 : InBypass: Efficiency not measured or calculated in this mode. 4 : OnBattery: Efficiency not measured or calculated in this mode. 5 : InBypass: Efficiency not measured or calculated in this mode. 6 : BatteryCharging: Battery is charging and is adversely affecting the efficiency. 7 : PoorACInput: The main input supply is outside of range which will result in optimal efficiency. 8 : BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. 1 : NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 6 : CountdownExpired, Countdown has ended.	40155	009A	154		Efficiency_EN	1	ENUM			ReadOnly	х	Х	
1 and a more specific reason is not known or supported. 1 -2: LoadTooLow: Load is too low to report efficiency. 1 1 -3: OutputOff: The output is off and efficiency is 0. 1 1 -4: OnBattery: Efficiency not measured or calculated in this mode. 1 1 -5: InBypass: Efficiency not measured or calculated in this mode. 1 1 -6: BatteryCharging: Battery is charging and is adversely affecting the efficiency. 1 -7: PoorACInput: The main input supply is outside of range which will result in optimal efficiency. 1 -8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. 1 -8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. 1 -1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.								128					
1 -2: LoadTooLow: Load is too low to report efficiency. 1 -3: OutputOff: The output is off and efficiency is 0. 1 -4: OnBattery: Efficiency not measured or calculated in this mode. 1 -5: InBypass: Efficiency not measured or calculated in this mode. 1 -6: BatteryCharging: Battery is charging and is adversely affecting the efficiency. 1 -6: BatteryCharging: Battery is outside of range which will result in optimal efficiency. 2 -7: PoorACInput: The main input supply is outside of range which will result in optimal efficiency. 3 -8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. Time remaining until output off for Main Outlet Group (MOG)1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.						1		1					
1 -3: OutputOff: The output is off and efficiency is 0. 1 -4: OnBattery: Efficiency not measured or calculated in this mode. 1 -5: InBypass: Efficiency not measured or calculated in this mode. 1 -5: Bypass: Efficiency not measured or calculated in this mode. 1 -6: BatteryCharging: Battery is charging and is adversely affecting the efficiency. -7: PoorACInput: The main input supply is outside of range which will result in optimal efficiency. -8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. Time remaining until output off for Main Outlet Group (MOG). -1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.													
1 -5: InBypass: Efficiency not measured or calculated in this mode. 1 -6: BatteryCharging: Battery is charging and is adversely affecting the efficiency7: PoorACInput: The main input supply is outside of range which will result in optimal efficiency8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. Time remaining until output off for Main Outlet Group (MOG)1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.						1				İ			
1 -6: Battery Charging: Battery is charging and is adversely affecting the efficiency7: PoorACInput: The main input supply is outside of range which will result in optimal efficiency8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. Time remaining until output off for Main Outlet Group (MOG)1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.													
-7: PoorACInput: The main input supply is outside of range which will result in optimal efficiency. -8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. Time remaining until output off for Main Outlet Group (MOG)1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.													
1 efficiency8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. Time remaining until output off for Main Outlet Group (MOG)1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.				1		+	-	1		-			
-8: BatteryDisconnected: The battery is disconnected and is adversely affecting the efficiency. Time remaining until output off for Main Outlet Group (MOG)1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.								1					
1 efficiency. Time remaining until output off for Main Outlet Group (MOG). -1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.								-					
-1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown. 0: CountdownExpired, Countdown has ended.								1					
L 40156 L 009B L 155 L IMOG.TurnOffCountdown EN L 1 L ENUM L 1 I(1)-(32767): Seconds remaining for countdown. L ReadOnly L x L x L	40156	009B	155		MOG.TurnOffCountdown EN	1	ENUM	4	-1: NotActive_Cancel: Reading: no countdown in progress. Writing: cancel shutdown.	ReadOnly		v	

									•			
Modicon Standard	Absolute	Absolute	Bit	Data Point	Length	Data Type	Scale	Description	Permission	SMX/SMT	SRT	SURTD
Register Number	Starting	Starting			# registers		(Divide					
	Register	Register					Reading					
	Address,	Address,					By)					
	(Hexadecimal)	(Decimal)										
								Time remaining until output on for Main Outlet Group (MOG).				
								-1: NotActive Cancel: Reading: no countdown in progress. Writing: cancel countdown.				
								0: CountdownExpired, Countdown has ended.				
40157	009C	156		MOG.TurnOnCountdown EN	1	ENUM	1	(1)-(32767); Seconds remaining for countdown.	ReadOnly	×	х	
	,,,,,							Minimum time to remain off after a shutdown for Main Outlet Group (MOG).	,			
								-1: NotActive. No countdown in progress.				
								0: CountdownExpired. Countdown has ended.				
40158	009D	157		MOG.StayOffCountdown EN	2	ENUM	1	(1)-(2147483647): Seconds remaining for countdown.	ReadWrite	x	х	
								Time remaining until output off for Switched Outlet Group SOG0.				
40160	009F	159		SOG[0].TurnOffCountdown EN	1	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.TurnOffCountdown EN.	ReadOnly	x	x	
								Time remaining until output on for Switched Outlet Group SOG0.				
40161	00A0	160		SOG[0].TurnOnCountdown EN	1	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.TurnOnCountdown EN.	ReadOnly	x	x	
								Minimum time to remain off after a shutdown for Switched Outlet Group SOG0.				
40162	00A1	161		SOG[0].StayOffCountdown_EN	2	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.StayOffCountdown_EN.	ReadWrite	x	Х	
								Time remaining until output off for Switched Outlet Group SOG1.				
40164	00A3	163		SOG[1].TurnOffCountdown_EN	1	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.TurnOffCountdown_EN.	ReadOnly	x	Х	
								Time remaining until output on for Switched Outlet Group SOG1.				
40165	00A4	164		SOG[1].TurnOnCountdown_EN	1	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.TurnOnCountdown_EN.	ReadOnly	x	Х	
								Minimum time to remain off after a shutdown for Switched Outlet Group SOG1.				
40166	00A5	165		SOG[1].StayOffCountdown_EN	2	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.StayOffCountdown_EN.	ReadWrite	x	х	
								Time remaining until output off for Switched Outlet Group SOG2.				
40168	00A7	167		SOG[2].TurnOffCountdown_EN	1	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.TurnOffCountdown_EN.	ReadOnly	X	Х	
								Time remaining until output on for Switched Outlet Group SOG 2.				
40169	8A00	168		SOG[2].TurnOnCountdown_EN	1	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.TurnOnCountdown_EN.	ReadOnly	X	Х	
								Minimum time to remain off after a shutdown for Switched Outlet Group SOG2.				
40170	00A9	169		SOG[2].StayOffCountdown_EN	2	ENUM	1	SEE ENUM DESCRIPTION ABOVE FOR MOG.StayOffCountdown_EN.	ReadWrite	х	Х	
40517	0204	516		FWVersion STR	8	ASCII		UPS Firmware Version.	ReadOnly			
40517	0204 020C	524	-	Reserved	8	ASCII		UPS FIRMWare Version.	ReadOnly	Х	X	Х
40525	0200	532		Model STR	16	ASCII		UPS Model Name.	ReadOnly	х	Х	Х
40533 40549	0214	548		SKU STR	16	ASCII		UPS SKU Name.	ReadOnly	X	X	X
40565	0234	564	1	SerialNumber STR	8	ASCII		UPS Serial Number.	ReadOnly	X	X	X
40303	0234	304		Serialivumber_STIX	0	AGCII		The replacement battery pack SKU for the internal battery pack (or the system, if there	ReauOnly	^	^	^
40573	023C	572		Battery.SKU STR	8	ASCII		is only one type).	ReadOnly	×	x	
40581	0244	580		Battery.ExternalBattery.SKU STR	8	ASCII		The replacement battery pack SKU for the external battery pack.	ReadOnly	x	^	
40589	024C	588	1	Output.ApparentPowerRating	1	UINT16	1	The rated apparent full power.	ReadOnly	X	х	х
40590	024D	589	1	Output.RealPowerRating	1	UINT16	1	The rated apparent full power.	ReadOnly	×	×	X
40591	024E	590		SOGRelayConfigSetting BF	1	5		Indicates UPS's outlet group configuration.	ReadOnly	X	X	
			0			BOOLEAN		MOGPresent: A user accessible Main Outlet Group (MOG) is present.		,		
			1			BOOLEAN		SOG0Present: Switched Outlet Group SOG0 is present.	1	1		
			2			BOOLEAN		SOG1Present: SOG 1 is present.		j j		
			3			BOOLEAN		SOG2Present: SOG 2 is present.		j j		
			4			BOOLEAN		SOG3Present: SOG 3 is present.		j j		
			5-15			BOOLEAN		Reserved		j j		
40592	024F	591		Manufacture.Date	1	UINT16	1	Manufacture Date, days since 1999 (January 1, 2000 = 0).	ReadOnly	х	Х	Х
40593	0250	592		Reserved	1			•	ReadOnly			

Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Scale (Divide Reading By)	Description	Permission	SMX/SMT	SRT	SURTD
								This is the output frequency setting including the tolerance. This drives whether the				
40594	0251	593		Output.AcceptableFrequencySetting_BF	1	BOOLEAN		output is in sync with the input.	ReadWrite		Х	Х
			0			BOOLEAN BOOLEAN		Auto: Automatic selection of 50/60Hz (47-53, 57-63). Hz50 0 1: Frequency of 50 Hz +/- 0.1 Hz.		-		
			1 2		+	BOOLEAN			-			-
-			3			BOOLEAN		Reserved Hz50_3_0: Frequency of 50 Hz +/- 3.0 Hz.	+			
			4			BOOLEAN		Hz60 0 1: Frequency of 60 Hz +/- 0.1 Hz.				
			5			BOOLEAN		Reserved	+			
			6			BOOLEAN		Hz60_3_0: Frequency of 60 Hz +/- 3.0 Hz.	+			
-			7-15			BOOLEAN		Reserved	-			
40595	0252	594		Reserved	1	20022711		110001100	ReadOnly	i		
40596	0253	595		Battery.DateSetting	1	UINT16		Battery Installation Date, days since 1999 (January 1, 2000 = 0).	ReadWrite	х	Х	х
40597	0254	596		Name STR	8	ASCII		The name assigned to the UPS.	ReadWrite	х	Х	
40605	025C	604	1	MOG.Name STR	8	ASCII		The name assigned to the Main Outlet Group (MOG).	ReadWrite	x	X	
40613	0264	612		SOG[0].Name STR	8	ASCII		The name assigned to Switched Outlet Group SOG0.	ReadWrite	х	Х	
40621	026C	620		SOG[1].Name STR	8	ASCII		The name assigned to SOG 1.	ReadWrite	х	Х	
40629	0274	628		SOG[2].Name STR	8	ASCII		The name assigned to SOG 2.	ReadWrite	х	Х	
40637	027C	636		Reserved	8				ReadOnly			
40645	0284	644		Output.VoltageACSetting_BF	2			This is the configured output voltage setting. This is still implemented when there is only one voltage setting.	ReadOnly	х	х	x
			0	· • • • • • • • • • • • • • • • • • • •		BOOLEAN		VAC100: Output voltage 100VAC.				
			1			BOOLEAN		VAC120: Output voltage 120VAC.				
			2			BOOLEAN		VAC200: Output voltage 200VAC.				
			3			BOOLEAN		VAC208: Output voltage 208VAC.				
			4			BOOLEAN		VAC220: Output voltage 220VAC.				
			5			BOOLEAN		VAC230: Output voltage 230VAC.				
			6			BOOLEAN		VAC240: Output voltage 240VAC.				
			7			BOOLEAN		Reserved				
			8			BOOLEAN		Reserved				
			9			BOOLEAN		Reserved				
			10			BOOLEAN		Reserved	1			
			11			BOOLEAN BOOLEAN		VAC110: Output voltage 110VAC.				
			12			BOOLEAN		Reserved VACAuto120 208or240: Output voltage 120VAC Phase-Neutral and automatically		-		
			13			BOOLEAN		selected 208 or 240 based on the input.				
-			14			BOOLEAN		VAC120 208: Output voltage 120VAC Phase-Neutral and 208	+			
			15			BOOLEAN		VAC120_200. Output voltage 120VAC Phase-Neutral and 240				
+			16		+	BOOLEAN		VAC120_240. Output voltage 120VAC Phase-Neutral and 240 VAC100_200: Output voltage 100VAC Phase-Neutral and 200	+	 		+
			17-31			BOOLEAN		Reserved				
41025	0400	1024		BatteryTestIntervalSetting BF	1			Time between UPS self tests.	ReadWrite	х	Х	Х
,20	2.00		0	,		BOOLEAN		Never: Do not perform battery test.				
			1			BOOLEAN		OnStartUpOnly: Only perform battery test on UPS powerup.	1			
								OnStartUpPlus7: Perform battery test on UPS powerup and every 7 days thereafter (if				
			2			BOOLEAN		UPS is on line or on battery). 7 day timer is loaded at turn on and reloaded upon timeout.				
								OnStartUpPlus14: Perform battery test on UPS powerup and every 14 days thereafter (if UPS is on line or on battery). 14 day timer is loaded at turn on and reloaded upon				
			3		1	BOOLEAN		timeout.	1			
								OnStartUp7Since: Perform battery test on UPS powerup and every 7 days after start o last test (if UPS is on line or on battery). 7 day timer is loaded at turn on. It is reloaded				
			4			BOOLEAN		upon timeout or when a test is commanded.				
					1			OnStartUp14Since: Perform battery test on UPS powerup and every 14 days after star	^t			
			5		1	BOOLEAN		of last test (if UPS is on line or on battery). 14 day timer is loaded at turn on. It is reloaded upon timeout or when a test is commanded.	1			
			6-15	<u> </u>	1	BOOLEAN		Reserved	1	1		1

Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Scale (Divide Reading By)	Description	Permission	SMX/SMT	SRT	SURTD
41026	0401	1025		Reserved	1				ReadOnly			
								This is the upper limit of the acceptable voltage. The "upper transfer point" (highest	•			1
41027	0402	1026		Output.UpperAcceptableVoltageSetting	1	UINT16	1	voltage load will see).	ReadWrite	х	Х	
								This is the lower limit of the acceptable voltage. The "lower transfer point" (lowest				
41028	0403	1027		Output.LowerAcceptableVoltageSetting	1 1	UINT16	1	voltage load will see).	ReadWrite	х	Х	
41029	0404	1028		Output.SensitivitySetting_BF	1	DOOL FAN		Sets the UPS sensitivity to line conditions.	ReadWrite	Х		
			0			BOOLEAN BOOLEAN		Normal: allows the minimum input deviations to be seen by the load. Reduced: allows more input deviations to be seen by the load than Normal setting.		1		+
			2			BOOLEAN		Low: allows maximum input deviations to be seen by the load.				+
			3-15			BOOLEAN		Reserved		1		+
41030	0405	1029	3-13	MOG.TurnOffCountdownSetting_EN	1	ENUM	1	For Main Outlet Group (MOG): Seconds of delay to use for an off. This value will be loaded into the TurnOffCountdown_EN when a delayed off command is requested. For MOG: Seconds of delay to use for an on. This value will be loaded into the	ReadWrite	х	Х	
41031	0406	1030		MOG.TurnOnCountdownSetting EN	1	ENUM	1	TurnOnCountdown EN when a delayed on command is requested.	ReadWrite	×	x	
41032	0407	1031		MOG.StayOffCountdownSetting_4B	2	INT32	1	For MOG: Seconds to keep an output off before starting it again. Typically minimum value of 4, maximum of 300.	ReadWrite	x	x	
								For MOG: The minimum amount of runtime required before the output will be turned				
41034	0409	1033		MOG.MinimumReturnRuntimeSetting	1	UINT16	1	on, using power calculation captured at start of last shutdown.	ReadWrite	x	Х	
41035	040A	1034		SOG[0]:TurnOffCountdownSetting_EN	1	ENUM	1	For Switched Outlet Group SOG0: Seconds of delay to use for an off. This value will be loaded into the TurnOffCountdown_EN when a delayed off command is requested. For SOG0: Seconds of delay to use for an on. This value will be loaded into the	ReadWrite	х	х	
41036	040B	1035		SOG[0].TurnOnCountdownSetting_EN	1	ENUM	1	TurnOnCountdown_EN when a delayed on command is requested.	ReadWrite	х	Х	
44007	0400	4000		0000010101040	2	INITOO		For SOG0: Seconds to keep an output off before starting it again. Typically minimum	D 1\A/-:4-			
41037	040C	1036	1	SOG[0].StayOffCountdownSetting_4B		INT32	1	value of 4, maximum of 300. For SOG0: The minimum amount of run time required before the output will be turned	ReadWrite	Х	Х	+
41039	040E	1038		SOG[0].MinimumReturnRuntimeSetting	1	UINT16	1	on, using power calculation captured at start of last shutdown.	ReadWrite	x	x	
41040	040F	1039		SOG[1].TurnOffCountdownSetting_EN	1	ENUM	1	For SOG1: Seconds of delay to use for an off. This value will be loaded into the TurnOffCountdown_EN when a delayed off command is requested.	ReadWrite	х	x	
								For SOG1: Seconds of delay to use for an on. This value will be loaded into the				
41041	0410	1040		SOG[1].TurnOnCountdownSetting_EN	11	ENUM	1	TurnOnCountdown_EN when a delayed on command is requested.	ReadWrite	х	Х	↓
41042	0411	1041		SOG[1].StayOffCountdownSetting_4B	2	INT32	1	For SOG1: Seconds to keep an output off before starting it again. Typically minimum value of 4, maximum of 300.	ReadWrite	х	х	
41044	0413	1043		SOG[1].MinimumReturnRuntimeSetting	1	UINT16	1	For SOG1: The minimum amount of run time required before the output will be turned on, using power calculation captured at start of last shutdown.	ReadWrite	х	х	<u> </u>
41045	0414	1044		SOG[2].TurnOffCountdownSetting_EN	1	ENUM	1	For SOG2: Seconds of delay to use for an off. This value will be loaded into the TurnOffCountdown_EN when a delayed off command is requested.	ReadWrite	х	х	<u> </u>
41046	0415	1045		SOG[2].TurnOnCountdownSetting_EN	1	ENUM	1	For SOG2: Seconds of delay to use for an on. This value will be loaded into the TurnOnCountdown_EN when a delayed on command is requested.	ReadWrite	х	х	
41047	0416	1046		SOG[2].StayOffCountdownSetting_4B	2	INT32	1	For SOG2: Seconds to keep an output off before starting it again. Typically minimum value of 4, maximum of 300.	ReadWrite	х	х	
41049	0418	1048		SOG[2].MinimumReturnRuntimeSetting	1	UINT16	1	For SOG2: The minimum amount of run time required before the output will be turned on, using power calculation captured at start of last shutdown.	ReadWrite	x	x	

Modicon Standard Register Number	Absolute Starting Register Address,	Absolute Starting Register Address,	Bit	Data Point	Length # registers	Data Type	Scale (Divide Reading By)	Description	Permission	SMX/SMT	SRT	SURTD
	(Hexadecimal)	(Decimal)										
								Actions that cause an outlet or output to turn off. Each bit represents a separate				
41055	041E	1054		MOG.LoadShedConfigSetting_BF	2			condition.	ReadWrite	x	х	
								UseOffDelay- Modifier: When set, the load shed conditions that have this as a valid				
			0			BOOLEAN		modifier will use the TurnOffCountdownSetting to shut the outlet off.				
								ManualRestartRequired - Modifier - When set, the load shed conditions that have this				
			١.,			D001 E441		as a valid modifier will use a turn off command instead of shutdown. This results in a				
			1			BOOLEAN BOOLEAN		manual intervention to restart the outlet.				
			2			BOOLEAN		Reserved TimeOnBattery: The outlet group will shed based on the				-
								LoadShedTimeOnBatterySetting usage. When operating on battery greater than this				
								time, the outlet will turn off. The modifier bits UseOffDelay and ManualRestartRequired	ı			
			3			BOOLEAN		are valid with this bit.				
			Ť			20022		RunTimeRemaining: The outlet group will shed based on the		i		
								LoadShedRuntimeRemainingSetting usage. When operating on battery and the				
								runtime remaining is less than or equal to this value, the outlet will turn off. The				
			4			BOOLEAN		modifier bits UseOffDelay and ManualRestartRequired are valid with this bit.				
								UPSOverload - When set, the outlet will turn off immediately (no off delay possible)				
								when the UPS is in overload. The outlet will require a manual command to restart. Not				
			5			BOOLEAN		applicable for the Main Outlet Group (MOG).				
			6-15		_	BOOLEAN		Reserved				
41057	0420	1056		SOG[0].LoadShedConfigSetting_BF	2	BOOLEAN		SEE BIT DESCRIPTIONS ABOVE FOR MOG.LoadShedConfigSetting_BF.	ReadWrite	х	Х	
41059	0422	1058		SOG[1].LoadShedConfigSetting_BF	2	BOOLEAN		SEE BIT DESCRIPTIONS ABOVE FOR MOG.LoadShedConfigSetting_BF.	ReadWrite	Х	Х	
41061	0424	1060		SOG[2].LoadShedConfigSetting_BF	2	BOOLEAN		SEE BIT DESCRIPTIONS ABOVE FOR MOG.LoadShedConfigSetting_BF. For Switched Outlet Group SOG0: When the Runtime remaining is less than or equal	ReadWrite	Х	Х	
								to this value, the outlet will turn off. This condition is enabled and configured with the				
41065	0428	1064		SOG[0].LoadShedRunTimeRemainingSetting	1	UINT16	1	LoadShedConfigSetting BF.	ReadWrite	×	х	
41003	0420	1004		300[0]:LoadShedr\diff interventainingSetting	<u>'</u>	Olivi 10	- '	For SOG1: When the Runtime remaining is less than or equal to this value, the outlet	iteauwiite	^	^	
								will turn off. This condition is enabled and configured with the				
41066	0429	1065		SOG[1].LoadShedRunTimeRemainingSetting	1	UINT16	1	LoadShedConfigSetting BF.	ReadWrite	x	х	
				Jane 5				For SOG2: When the Runtime remaining is less than or equal to this value, the outlet				
								will turn off. This condition is enabled and configured with the				
41067	042A	1066		SOG[2].LoadShedRunTimeRemainingSetting	1	UINT16	1	LoadShedConfigSetting_BF.	ReadWrite	x	Х	
								For SOG0: The time on battery that will cause the outlet to turn off. This condition is				
41069	042C	1068		SOG[0].LoadShedTimeOnBatterySetting	1	UINT16	1	enabled and configured with the LoadShedConfigSetting_BF.	ReadWrite	Х	Х	
								For SOG1: The time on battery that will cause the outlet to turn off. This condition is				
41070	042D	1069		SOG[1].LoadShedTimeOnBatterySetting	1	UINT16	11	enabled and configured with the LoadShedConfigSetting_BF.	ReadWrite	х	Х	
44074	0.405	1070		COCIOL and Chad Time On Patter (Catting)		LUNITAG		For SOG2: The time on battery that will cause the outlet to turn off. This condition is	Dood\\/r:+-		.,	
41071	042E	1070	1	SOG[2].LoadShedTimeOnBatterySetting	1	UINT16	1	enabled and configured with the LoadShedConfigSetting_BF. For Main Outlet Group (MOG): When the Runtime remaining is less than or equal to	ReadWrite	Х	Х	
								this value, the outlet will turn off. This condition is enabled and configured with the				
41073	0430	1072		MOG.LoadShedRunTimeRemainingSetting	1	UINT16	1	LoadShedConfigSetting BF.	ReadWrite	x	x	
41073	U+3U	1012	+	IndoLoadoneurtum interventaliningdetting	 	OINTIO		For MOG: The time on battery that will cause the outlet to turn off. This condition is	iveauvviile	 ^ 	^	
41074	0431	1073		MOG.LoadShedTimeOnBatterySetting	1	UINT16	1	enabled and configured with the LoadShedConfigSetting BF	ReadWrite	x	х	
	ŭ . ŭ .					5						

Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Scale (Divide Reading By)	Description	Permission	SMX/SMT	SRT	SURTD
41537	0600	1536		UPSCommand BF	2			Command the UPS to perform the designated function as defined by the individual bits.	ReadWrite	×	×	×
11001	0000	1000	0	or occumenta_br	_	BOOLEAN		Reserved	Hoddinino	~		
			1			BOOLEAN		Reserved				
			2			BOOLEAN		Reserved				
			3			BOOLEAN		RestoreFactorySettings: Restore factory default settings for all operational parameters that can be safely returned to factory defaults. Output Voltage Setting and Output Frequency Setting are not altered. Strings, User Language settings, logs, and statistical information are not reset with this command. OutputIntoBypass: Commands the UPS into bypass if conditions allow and bypass is				
			4			BOOLEAN		supported.				
			5			BOOLEAN		OutputOutOfBypass: Commands the UPS out of bypass if conditions allow and UPS is				
			6			BOOLEAN		currently in bypass. Reserved				
			7			BOOLEAN		Reserved	 			
			8			BOOLEAN		Reserved	-		-	+ -
			J		1	DOOLD !!V		ClearFaults: Clears any faults that would inhibit a restart. Note: Faults may	1			
			9			BOOLEAN		immediately reoccur if they still exist.				
			10			BOOLEAN		Reserved				
			11 12			BOOLEAN BOOLEAN		Reserved				
			13			BOOLEAN		Reserved ResetStrings: Resets all user settable strings to their factory default values.				-
			14-31			BOOLEAN		Reserved				1
41539	0602	1538	14 01	OutletCommand BF	2	BOOLLAIN		A command register for performing sequenced timing (or immediate) operations to the switched or unswitched outlets. Note: If source bits are implemented it is required that one action, and one source be selected to make a valid command.	ReadWrite	x	x	
7.000					_							
			0			BOOLEAN		Cancel: Cancels pending actions to the targets selected. No modifiers are allowed.				
			1			BOOLEAN		OutputOn: Command the output to turn on. The only valid modifiers (in any combination) are UseOnDelay and ColdBootAllowed.				
			2			BOOLEAN		OutputOff: Command the output to turn off (and not come back on automatically). The only valid modifier is UseOffDelay.				
			3			BOOLEAN		OutputShutdown: Command the output to turn off and then back on automatically wher AC input power is restored. The only valid modifiers (in any combination) are UseOffDelay and UseOnDelay. MinimumReturnRuntimeSetting is enforced when turning on.				
								OutputReboot: Command the output to turn off and then back on automatically. The only valid modifiers (in any combination) are UseOffDelay, UseOnDelay and ColdBootAllowed. MinimumReturnRuntimeSetting is not enforced when turning on. A Reboot command is interpretted as a sleep command when the stayofftime countdown				
			4			BOOLEAN		is greater than 300 seconds. ColdBootAllowed-Modifier: Allow the output to turn on without AC input power				
			5 6			BOOLEAN BOOLEAN		conditions met. UseOnDelay-Modifier: Use the on delay settings for the applied command.	1			
			7			BOOLEAN		UseOffDelay-Modifier: Use the off delay settings for the applied command.	1			
			8			BOOLEAN		UnswitchedOutletGroup-Target: Command applies to the unswitched outlet group Main Outlet Group (MOG).				
-			9			BOOLEAN		SwitchedOutletGroup0-Target: Command applies to switched outlet group 0.	 			-
			10			BOOLEAN		SwitchedOutletGroup1-Target: Command applies to switched outlet group 1.	†			
			11			BOOLEAN		SwitchedOutletGroup2-Target: Command applies to switched outlet group 2.	1			
			12		İ	BOOLEAN		USBPort-Source: Command came from a device connected to the USB port.	1			
			13			BOOLEAN		LocalUser-Source: Command came from a local user interface.				
								RJ45Port-Source: Command came from a device connected to the Computer Interface port (typically RJ45), This includes software over the serial RJ45 and simple signal via				
			14			BOOLEAN		RJ45.				
			15			BOOLEAN		SmartSlot1-Source: Command came from a device in SmartSlot 1.	ļ			
			16			BOOLEAN		SmartSlot2-Source: Command came from a device in SmartSlot 2.				
			17			BOOLEAN		InternalNetwork1-Source: Command came from the internal network card #1.				
			18		-	BOOLEAN		InternalNetwork2-Source: Command came from the internal network card #2.	 			+
	<u> </u>		19-31	l	l	BOOLEAN		Reserved	1	1	1	1

41541 0904 1540 SimpleSignalingCommand_BF 1	Modicon Standard Register Number	Absolute Starting Register Address, (Hexadecimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	Data Type	Scale (Divide Reading By)	Description	Permission	SMX/SMT	SRT	SURTD
41541 0004 1540 Single-Signaling-Command_BF 1 Single-Signaling-Sig		(гтолаасситан)	(200)										
Requestibilitations, if there is no "institutions" action in process, this bit indicates a command to the system to shallows. The LIPS also continues to the system to shallows it is a three controlling without the command of the co	44544	0004	4540		0: 10: 1: 0 1.55					D 1147.77			
BOLLEAN BOL	41541	0604	1540		SimpleSignalingCommand_BF	1				Readwrite	Х	Х	Х
be UPS State (Online or On Battery), it is the responsibility of the monitoring software in the UPS category in the state of presents and he page possible size. 1													
BOOLEAN To only issue this command at the appropriate line.													
BOOLEAN Source				0			BOOLEAN						
BOOLEAN Secretion Secret													
BOLEAN 1541 ReplaceBateryTesCommand BF 1 BOLEAN BO													
BOOLEAN Begins a battery lest to determine if the replace battery signal should be asserted / design a battery lest to determine if the replace battery signal should be asserted / design a battery lest to determine if the replace battery signal should be asserted / designated. It also proves that the battery can support the foad for at lessal a short signal and the signal of th				1			BOOLEAN						
Solid Soli							D001 E441						
Begin a battery test to determine if the replace battery aignat should be asserted / deserted. It also proves that the battery can support the load for at least a short wine. 1													
Altifact Command Factor Command Factor Command Factor Facto				3-13			BOOLEAN						
41642													
1	41542	0605	1541		ReplaceBatteryTestCommand BF	1				ReadWrite	x	х	х
A 1542 RunTimeCalibrationCommand_BF 1 SOOLEAN Segin / cancel a run time calibration. Run time calibration may improve the accuracy of the reported run time. Security of the run time calibration. Security of the ru			-	0			BOOLEAN		Start: Start the test.				
Segin / cancel a run time calibration. Run time calibration may improve the accuracy of the reported run time.									Abort: Cancel the test.				
A1543 0606 1542 RunTimeCalibrationCommand_BF 1 0 0 1500_EAN Start: Start the run time calibration.				2-15			BOOLEAN						
Start: Start the run time calibration.													
1	41543	0606	1542		RunTimeCalibrationCommand_BF	1	DOOL FAN			ReadWrite	X	Х	Х
2-15													
1543 UserInterfaceCommand_BF 1													
ShortTest: Perform the momentary local Ul test, e.g. light all the LEDs and sound the beeper. Continuous Test: Perform the continuous local Ul test, e.g. light all the LEDs and sound the beeper until canceled. To cancel, set UlCommand_BF.ShortTest. Local multing should cancel this as well. BOOLEAN MuteAllActiveAudibleAlarms: Mute all the active alarms in the UPS. Will not silence the beeper during the short or continuous test or under other implementation specific reasons (for example, key click). BOOLEAN CancelMute: Cancels any mutting (same as audible disabled then enabled).	41544	0607	1543	2-13	UserInterfaceCommand RF	1	BOOLLAIN			ReadWrite	Y	Y	Х
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END OF MAP

APC Worldwide Customer Support

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* Visit the APC Web site to access documents in the APC Knowledge Base and to submit customer support requests.

- www.apc.com (Corporate Headquarters) Connect to localized APC Web sites for specific countries, each of which provides customer support information.
- www.apc.com/support/ Global support searching APC Knowledge Base and using e-support.
- * Contact the APC Customer Support Center by telephone or e-mail.
- Local, country-specific centers: go to www.apc.com/support/contact for contact information.

For information on how to obtain local customer support, contact the APC representative or other distributors from whom you purchased your APC product.

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