

General

Application

## General

### Identification

#### Product identification

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
50000	0xC350	Info	69	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data type
50000	0xC350	4	"SOCO"	-	STRING_
50004	0xC354	1	Product order ID (Countis:100, Protection:200, Atys:300, Diris:400)	-	U16
50005	0xC355	1	Product ID (EX: 1000 ATS3)	-	U16
50006	0xC356	1	MODBUS Table Version	-	U16
50007	0xC357	1	Product software version (EX: 100 Version 1.00)	-	U16
50008	0xC358	1	Serial_AA_SS	-	U16_HE
50009	0xC359	1	Serial_SST_L	-	U16_HE
50010	0xC35A	1	Serial_order	-	U16
50011	0xC35B	2	Serial_Reserve	-	U32
50013	0xC35D	4	See "Code table" tab for more details	-	U64_HE
50017	0xC361	1	Customization data loaded (True/False)	-	U8
50018	0xC362	1	Product version (Major)	-	U16
50019	0xC363	1	Product version (Minor)	-	U16
50020	0xC364	1	Product version (Revision)	-	U16
50021	0xC365	1	Product version (Build)	-	U16
50022	0xC366	3	Product build date	-	DATETIME
50025	0xC369	1	Software technical base version (Major)	-	U16
50026	0xC36A	1	Software technical base version (Minor)	-	U16
50027	0xC36B	1	Software technical base version (Revision)	-	U16
50028	0xC36C	1	Customization version (Major)	-	U16
50029	0xC36D	1	Customization version (Minor)	-	U16
50030	0xC36E	4	Product VLO (EX : "880100")	-	STRING_NC
50034	0xC372	4	Customization VLO (EX : "880700")	-	STRING_NC
50038	0xC376	4	Software technical base VLO (EX : "880600")	-	STRING_NC
50042	0xC37A	8	Vendor name (EX : "SOCOMECE")	-	STRING_NC
50050	0xC382	8	Product name (EX : "PMD EE")	-	STRING_NC
50058	0xC38A	8	Extended name	-	STRING_NC
50066	0xC392	1	Ressource version (Build 2)	-	U16
50067	0xC393	2	Net ID	-	U32_HE

### Maintenance

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Dec address	Hex address	Words count	Description	Unit	Data ty
512	0x0200	2	Total operating hours counter	s	U32
514	0x0202	2	Partial operating hours counter	s	U32

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### Measurement

#### Loads

##### Inst. measurement - Load #1

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
18432	0x4800	Info	92	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
18432	0x4800	1	Load status 0 : Disabled 1 : Enabled	-	U8
18433	0x4801	2	Date of last instance	s	DATETI
18435	0x4803	1	Integration time	s / 5	U16
18436	0x4804	2	Reserved	-	-
18438	0x4806	2	Reserved	-	-
18440	0x4808	2	Reserved	-	-
18442	0x480A	2	Frequency	Hz / 1000	U32
18444	0x480C	2	Ph-N Voltage : V1	V / 100	U32
18446	0x480E	2	Ph-N Voltage : V2	V / 100	U32
18448	0x4810	2	Ph-N Voltage : V3	V / 100	U32
18450	0x4812	2	Reserved	-	-
18452	0x4814	2	Ph-Ph Voltage : U12	V / 100	U32
18454	0x4816	2	Ph-Ph Voltage : U23	V / 100	U32
18456	0x4818	2	Ph-Ph Voltage : U31	V / 100	U32
18458	0x481A	2	Current : I1	A / 1000	U32
18460	0x481C	2	Current : I2	A / 1000	U32
18462	0x481E	2	Current : I3	A / 1000	U32
18464	0x4820	2	Current : In	A / 1000	U32
18466	0x4822	1	Reserved	-	-
18467	0x4823	2	Reserved	-	-
18469	0x4825	2	Reserved	-	-
18471	0x4827	2	Reserved	-	-
18473	0x4829	1	Reserved	-	-
18474	0x482A	2	Speed	1/A	U32

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18487	0x4837	1	Real Power factor type : 0 : undefined 1 : leading 2 : lagging	-	U8
18488	0x4838	2	Reserved	-	-
18490	0x483A	2	Reserved	-	-
18492	0x483C	2	Reserved	-	-
18494	0x483E	2	Reserved	-	-
18496	0x4840	2	Reserved	-	-
18498	0x4842	2	Reserved	-	-
18500	0x4844	2	Reserved	-	-
18502	0x4846	2	Reserved	-	-
18504	0x4848	2	Reserved	-	-
18506	0x484A	2	Reserved	-	-
18508	0x484C	2	Reserved	-	-
18510	0x484E	2	Reserved	-	-
18512	0x4850	2	Reserved	-	-
18514	0x4852	2	Reserved	-	-
18516	0x4854	2	Reserved	-	-
18518	0x4856	1	Reserved	-	-
18519	0x4857	1	Reserved	-	-
18520	0x4858	1	Reserved	-	-
18521	0x4859	1	Reserved	-	-
18522	0x485A	1	Reserved	-	-
18523	0x485B	1	Reserved	-	-

**Inst. measurement - Load #2**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
20480	0x5000	Info	92	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
20480	0x5000	1	Load status 0 : Disabled 1 : Enabled	-	U8
20481	0x5001	2	Date of last instance	s	DATETI
20483	0x5003	1	Integration time	s / 5	U16
20484	0x5004	2	Reserved	-	-
20486	0x5006	2	Reserved	-	-
20488	0x5008	2	Reserved	-	-
20490	0x500A	2	Frequency	Hz / 1000	U32
20492	0x500C	2	Ph-N Voltage : V1	V / 100	U32
20494	0x500E	2	Ph-N Voltage : V2	V / 100	U32
20496	0x5010	2	Ph-N Voltage : V3	V / 100	U32
20498	0x5012	2	Reserved	-	-

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20514	0x5022	1	Reserved	-	-
20515	0x5023	2	Reserved	-	-
20517	0x5025	2	Reserved	-	-
20519	0x5027	2	Reserved	-	-
20521	0x5029	1	Reserved	-	-
20522	0x502A	2	Snom	VA	U32
20524	0x502C	2	Total active power	W	S32
20526	0x502E	2	Total reactive power	var	S32
20528	0x5030	2	Total lagging reactive power	var	S32
20530	0x5032	2	Total leading reactive power	var	S32
20532	0x5034	2	Total apparent power	VA	U32
20534	0x5036	1	Total power factor	- / 1000	S16
20535	0x5037	1	Total Power factor type : 0 : undefined 1 : leading 2 : lagging	-	U8
20536	0x5038	2	Reserved	-	-
20538	0x503A	2	Reserved	-	-
20540	0x503C	2	Reserved	-	-
20542	0x503E	2	Reserved	-	-
20544	0x5040	2	Reserved	-	-
20546	0x5042	2	Reserved	-	-
20548	0x5044	2	Reserved	-	-
20550	0x5046	2	Reserved	-	-
20552	0x5048	2	Reserved	-	-
20554	0x504A	2	Reserved	-	-
20556	0x504C	2	Reserved	-	-
20558	0x504E	2	Reserved	-	-
20560	0x5050	2	Reserved	-	-
20562	0x5052	2	Reserved	-	-
20564	0x5054	2	Reserved	-	-
20566	0x5056	1	Reserved	-	-
20567	0x5057	1	Reserved	-	-
20568	0x5058	1	Reserved	-	-
20569	0x5059	1	Reserved	-	-
20570	0x505A	1	Reserved	-	-
20571	0x505B	1	Reserved	-	-

**Inst. measurement - Load #3**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
22528	0x5800	Info	92	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
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22536	0x5808	2	Reserved	-	-
22538	0x580A	2	Frequency	Hz / 1000	U32
22540	0x580C	2	Ph-N Voltage : V1	V / 100	U32
22542	0x580E	2	Ph-N Voltage : V2	V / 100	U32
22544	0x5810	2	Ph-N Voltage : V3	V / 100	U32
22546	0x5812	2	Reserved	-	-
22548	0x5814	2	Ph-Ph Voltage : U12	V / 100	U32
22550	0x5816	2	Ph-Ph Voltage : U23	V / 100	U32
22552	0x5818	2	Ph-Ph Voltage : U31	V / 100	U32
22554	0x581A	2	Current : I1	A / 1000	U32
22556	0x581C	2	Current : I2	A / 1000	U32
22558	0x581E	2	Current : I3	A / 1000	U32
22560	0x5820	2	Current : In	A / 1000	U32
22562	0x5822	1	Reserved	-	-
22563	0x5823	2	Reserved	-	-
22565	0x5825	2	Reserved	-	-
22567	0x5827	2	Reserved	-	-
22569	0x5829	1	Reserved	-	-
22570	0x582A	2	Snom	VA	U32
22572	0x582C	2	Total active power	W	S32
22574	0x582E	2	Total reactive power	var	S32
22576	0x5830	2	Total lagging reactive power	var	S32
22578	0x5832	2	Total leading reactive power	var	S32
22580	0x5834	2	Total apparent power	VA	U32
22582	0x5836	1	Total power factor	- / 1000	S16
22583	0x5837	1	Total Power factor type : 0 : undefined 1 : leading 2 : lagging	-	U8
22584	0x5838	2	Reserved	-	-
22586	0x583A	2	Reserved	-	-
22588	0x583C	2	Reserved	-	-
22590	0x583E	2	Reserved	-	-
22592	0x5840	2	Reserved	-	-
22594	0x5842	2	Reserved	-	-
22596	0x5844	2	Reserved	-	-
22598	0x5846	2	Reserved	-	-
22600	0x5848	2	Reserved	-	-
22602	0x584A	2	Reserved	-	-
22604	0x584C	2	Reserved	-	-
22606	0x584E	2	Reserved	-	-
22608	0x5850	2	Reserved	-	-
22610	0x5852	2	Reserved	-	-
22612	0x5854	2	Reserved	-	-
22614	0x5856	1	Reserved	-	-

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Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
24576	0x6000	Info	92	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
24576	0x6000	1	Load status 0 : Disabled 1 : Enabled	-	U8
24577	0x6001	2	Date of last instance	s	DATETI
24579	0x6003	1	Integration time	s / 5	U16
24580	0x6004	2	Reserved	-	-
24582	0x6006	2	Reserved	-	-
24584	0x6008	2	Reserved	-	-
24586	0x600A	2	Frequency	Hz / 1000	U32
24588	0x600C	2	Ph-N Voltage : V1	V / 100	U32
24590	0x600E	2	Ph-N Voltage : V2	V / 100	U32
24592	0x6010	2	Ph-N Voltage : V3	V / 100	U32
24594	0x6012	2	Reserved	-	-
24596	0x6014	2	Ph-Ph Voltage : U12	V / 100	U32
24598	0x6016	2	Ph-Ph Voltage : U23	V / 100	U32
24600	0x6018	2	Ph-Ph Voltage : U31	V / 100	U32
24602	0x601A	2	Current : I1	A / 1000	U32
24604	0x601C	2	Current : I2	A / 1000	U32
24606	0x601E	2	Current : I3	A / 1000	U32
24608	0x6020	2	Current : In	A / 1000	U32
24610	0x6022	1	Reserved	-	-
24611	0x6023	2	Reserved	-	-
24613	0x6025	2	Reserved	-	-
24615	0x6027	2	Reserved	-	-
24617	0x6029	1	Reserved	-	-
24618	0x602A	2	Snom	VA	U32
24620	0x602C	2	Total active power	W	S32
24622	0x602E	2	Total reactive power	var	S32
24624	0x6030	2	Total lagging reactive power	var	S32
24626	0x6032	2	Total leading reactive power	var	S32
24628	0x6034	2	Total apparent power	VA	U32
24630	0x6036	1	Total power factor	- / 1000	S16
24631	0x6037	1	Total Power factor type : 0 : undefined 1 : leading 2 : lagging	-	U8
24632	0x6038	2	Reserved	-	-
24634	0x603A	2	Reserved	-	-
24636	0x603C	2	Reserved	-	-
24638	0x603E	2	Reserved	-	-

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24652	0x604C	2	Reserved	-	-
24654	0x604E	2	Reserved	-	-
24656	0x6050	2	Reserved	-	-
24658	0x6052	2	Reserved	-	-
24660	0x6054	2	Reserved	-	-
24662	0x6056	1	Reserved	-	-
24663	0x6057	1	Reserved	-	-
24664	0x6058	1	Reserved	-	-
24665	0x6059	1	Reserved	-	-
24666	0x605A	1	Reserved	-	-
24667	0x605B	1	Reserved	-	-

**Inst. measurement - Load #5**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
26624	0x6800	Info	92	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
26624	0x6800	1	Load status 0 : Disabled 1 : Enabled	-	U8
26625	0x6801	2	Date of last instance	s	DATETI
26627	0x6803	1	Integration time	s / 5	U16
26628	0x6804	2	Reserved	-	-
26630	0x6806	2	Reserved	-	-
26632	0x6808	2	Reserved	-	-
26634	0x680A	2	Frequency	Hz / 1000	U32
26636	0x680C	2	Ph-N Voltage : V1	V / 100	U32
26638	0x680E	2	Ph-N Voltage : V2	V / 100	U32
26640	0x6810	2	Ph-N Voltage : V3	V / 100	U32
26642	0x6812	2	Reserved	-	-
26644	0x6814	2	Ph-Ph Voltage : U12	V / 100	U32
26646	0x6816	2	Ph-Ph Voltage : U23	V / 100	U32
26648	0x6818	2	Ph-Ph Voltage : U31	V / 100	U32
26650	0x681A	2	Current : I1	A / 1000	U32
26652	0x681C	2	Current : I2	A / 1000	U32
26654	0x681E	2	Current : I3	A / 1000	U32
26656	0x6820	2	Current : In	A / 1000	U32
26658	0x6822	1	Reserved	-	-
26659	0x6823	2	Reserved	-	-
26661	0x6825	2	Reserved	-	-
26663	0x6827	2	Reserved	-	-
26665	0x6829	1	Reserved	-	-
26666	0x682A	2	Reserved	-	-

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26679	0x6837	1	Total Power factor type : 0 : undefined 1 : leading 2 : lagging	-	U8
26680	0x6838	2	Reserved	-	-
26682	0x683A	2	Reserved	-	-
26684	0x683C	2	Reserved	-	-
26686	0x683E	2	Reserved	-	-
26688	0x6840	2	Reserved	-	-
26690	0x6842	2	Reserved	-	-
26692	0x6844	2	Reserved	-	-
26694	0x6846	2	Reserved	-	-
26696	0x6848	2	Reserved	-	-
26698	0x684A	2	Reserved	-	-
26700	0x684C	2	Reserved	-	-
26702	0x684E	2	Reserved	-	-
26704	0x6850	2	Reserved	-	-
26706	0x6852	2	Reserved	-	-
26708	0x6854	2	Reserved	-	-
26710	0x6856	1	Reserved	-	-
26711	0x6857	1	Reserved	-	-
26712	0x6858	1	Reserved	-	-
26713	0x6859	1	Reserved	-	-
26714	0x685A	1	Reserved	-	-
26715	0x685B	1	Reserved	-	-

**Inst. measurement - Load #6**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
28672	0x7000	Info	92	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
28672	0x7000	1	Load status 0 : Disabled 1 : Enabled	-	U8
28673	0x7001	2	Date of last instance	s	DATETI
28675	0x7003	1	Integration time	s / 5	U16
28676	0x7004	2	Reserved	-	-
28678	0x7006	2	Reserved	-	-
28680	0x7008	2	Reserved	-	-
28682	0x700A	2	Frequency	Hz / 1000	U32
28684	0x700C	2	Ph-N Voltage : V1	V / 100	U32
28686	0x700E	2	Ph-N Voltage : V2	V / 100	U32
28688	0x7010	2	Ph-N Voltage : V3	V / 100	U32
28690	0x7012	2	Reserved	-	-



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28704	0x7020	2	Current : In	A / 1000	U32
28706	0x7022	1	Reserved	-	-
28707	0x7023	2	Reserved	-	-
28709	0x7025	2	Reserved	-	-
28711	0x7027	2	Reserved	-	-
28713	0x7029	1	Reserved	-	-
28714	0x702A	2	Snom	VA	U32
28716	0x702C	2	Total active power	W	S32
28718	0x702E	2	Total reactive power	var	S32
28720	0x7030	2	Total lagging reactive power	var	S32
28722	0x7032	2	Total leading reactive power	var	S32
28724	0x7034	2	Total apparent power	VA	U32
28726	0x7036	1	Total power factor	- / 1000	S16
28727	0x7037	1	Total Power factor type : 0 : undefined 1 : leading 2 : lagging	-	U8
28728	0x7038	2	Reserved	-	-
28730	0x703A	2	Reserved	-	-
28732	0x703C	2	Reserved	-	-
28734	0x703E	2	Reserved	-	-
28736	0x7040	2	Reserved	-	-
28738	0x7042	2	Reserved	-	-
28740	0x7044	2	Reserved	-	-
28742	0x7046	2	Reserved	-	-
28744	0x7048	2	Reserved	-	-
28746	0x704A	2	Reserved	-	-
28748	0x704C	2	Reserved	-	-
28750	0x704E	2	Reserved	-	-
28752	0x7050	2	Reserved	-	-
28754	0x7052	2	Reserved	-	-
28756	0x7054	2	Reserved	-	-
28758	0x7056	1	Reserved	-	-
28759	0x7057	1	Reserved	-	-
28760	0x7058	1	Reserved	-	-
28761	0x7059	1	Reserved	-	-
28762	0x705A	1	Reserved	-	-
28763	0x705B	1	Reserved	-	-

**Inst. fundamental measurement - Load #1**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
18688	0x4900	Info	77	NONE	READ	READ

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10034	0x4900	2	Ph-N voltage: V3h1	V / 100	U32
18696	0x4908	2	Ph-N voltage: V3h1	V / 100	U32
18698	0x490A	2	Ph-N voltage: Vnh1	V / 100	U32
18700	0x490C	1	Ph-N voltage phase: phV1h1	? / 10	S16
18701	0x490D	1	Ph-N voltage phase: phV2h1	? / 10	S16
18702	0x490E	1	Ph-N voltage phase: phV3h1	? / 10	S16
18703	0x490F	1	Ph-N voltage phase: phVnh1	? / 10	S16
18704	0x4910	2	Ph-Ph voltage: U12h1	V / 100	U32
18706	0x4912	2	Ph-Ph voltage: U23h1	V / 100	U32
18708	0x4914	2	Ph-Ph voltage: U31h1	V / 100	U32
18710	0x4916	1	Ph-Ph voltage phase: phU12h1	? / 10	S16
18711	0x4917	1	Ph-Ph voltage phase: phU23h1	? / 10	S16
18712	0x4918	1	Ph-Ph voltage phase: phU31h1	? / 10	S16
18713	0x4919	2	Current: I1h1	A / 1000	U32
18715	0x491B	2	Current: I2h1	A / 1000	U32
18717	0x491D	2	Current: I3h1	A / 1000	U32
18719	0x491F	2	Current: Inh1	A / 1000	U32
18721	0x4921	1	Current phase: phI1h1	? / 10	S16
18722	0x4922	1	Current phase: phI2h1	? / 10	S16
18723	0x4923	1	Current phase: phI3h1	? / 10	S16
18724	0x4924	1	Current phase: phInh1	? / 10	S16
18725	0x4925	1	phi current voltage: phiI1h1V1h1	? / 10	S16
18726	0x4926	1	phi current voltage: phiI2h1V2h1	? / 10	S16
18727	0x4927	1	phi current voltage: phiI3h1V3h1	? / 10	S16
18728	0x4928	1	phi current voltage: phiInh1Vnh1	? / 10	S16
18729	0x4929	2	Reserved	-	-
18731	0x492B	2	Reserved	-	-
18733	0x492D	2	Reserved	-	-
18735	0x492F	2	Reserved	-	-
18737	0x4931	2	Reserved	-	-
18739	0x4933	2	Reserved	-	-
18741	0x4935	2	Reserved	-	-
18743	0x4937	2	Reserved	-	-
18745	0x4939	1	Reserved	-	-
18746	0x493A	1	Reserved	-	-
18747	0x493B	1	Reserved	-	-
18748	0x493C	1	Reserved	-	-
18749	0x493D	1	Reserved	-	-
18750	0x493E	1	Reserved	-	-
18751	0x493F	1	Reserved	-	-
18752	0x4940	1	Reserved	-	-
18753	0x4941	1	Reserved	-	-
18754	0x4942	1	Reserved	-	-
18755	0x4943	1	Reserved	-	-
18756	0x4944	1	Reserved	-	-

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18763	0x494B	1	Reserved	-	-
18764	0x494C	1	Reserved	-	-

**Inst. fundamental measurement - Load #2**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
20736	0x5100	Info	77	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
20736	0x5100	1	Load status 0 : Disabled 1 : Enabled	-	U8
20737	0x5101	2	Date of last instance	s	DATETI
20739	0x5103	1	Integration time	s / 5	U16
20740	0x5104	2	Ph-N voltage: V1h1	V / 100	U32
20742	0x5106	2	Ph-N voltage: V2h1	V / 100	U32
20744	0x5108	2	Ph-N voltage: V3h1	V / 100	U32
20746	0x510A	2	Ph-N voltage: Vnh1	V / 100	U32
20748	0x510C	1	Ph-N voltage phase: phV1h1	? / 10	S16
20749	0x510D	1	Ph-N voltage phase: phV2h1	? / 10	S16
20750	0x510E	1	Ph-N voltage phase: phV3h1	? / 10	S16
20751	0x510F	1	Ph-N voltage phase: phVnh1	? / 10	S16
20752	0x5110	2	Ph-Ph voltage: U12h1	V / 100	U32
20754	0x5112	2	Ph-Ph voltage: U23h1	V / 100	U32
20756	0x5114	2	Ph-Ph voltage: U31h1	V / 100	U32
20758	0x5116	1	Ph-Ph voltage phase: phU12h1	? / 10	S16
20759	0x5117	1	Ph-Ph voltage phase: phU23h1	? / 10	S16
20760	0x5118	1	Ph-Ph voltage phase: phU31h1	? / 10	S16
20761	0x5119	2	Current: I1h1	A / 1000	U32
20763	0x511B	2	Current: I2h1	A / 1000	U32
20765	0x511D	2	Current: I3h1	A / 1000	U32
20767	0x511F	2	Current: Inh1	A / 1000	U32
20769	0x5121	1	Current phase: phI1h1	? / 10	S16
20770	0x5122	1	Current phase: phI2h1	? / 10	S16
20771	0x5123	1	Current phase: phI3h1	? / 10	S16
20772	0x5124	1	Current phase: phInh1	? / 10	S16
20773	0x5125	1	phi current voltage: phiI1h1V1h1	? / 10	S16
20774	0x5126	1	phi current voltage: phiI2h1V2h1	? / 10	S16
20775	0x5127	1	phi current voltage: phiI3h1V3h1	? / 10	S16
20776	0x5128	1	phi current voltage: phiInh1Vnh1	? / 10	S16
20777	0x5129	2	Reserved	-	-
20779	0x512B	2	Reserved	-	-
20781	0x512D	2	Reserved	-	-
20783	0x512F	2	Reserved	-	-

## General

## Application

20795	0x513B	1	Reserved	-	-
20796	0x513C	1	Reserved	-	-
20797	0x513D	1	Reserved	-	-
20798	0x513E	1	Reserved	-	-
20799	0x513F	1	Reserved	-	-
20800	0x5140	1	Reserved	-	-
20801	0x5141	1	Reserved	-	-
20802	0x5142	1	Reserved	-	-
20803	0x5143	1	Reserved	-	-
20804	0x5144	1	Reserved	-	-
20805	0x5145	1	Reserved	-	-
20806	0x5146	1	Reserved	-	-
20807	0x5147	1	Reserved	-	-
20808	0x5148	1	Reserved	-	-
20809	0x5149	1	Reserved	-	-
20810	0x514A	1	Reserved	-	-
20811	0x514B	1	Reserved	-	-
20812	0x514C	1	Reserved	-	-

**Inst. fundamental measurement - Load #3**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
22784	0x5900	Info	77	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
22784	0x5900	1	Load status 0 : Disabled 1 : Enabled	-	U8
22785	0x5901	2	Date of last instance	s	DATETI
22787	0x5903	1	Integration time	s / 5	U16
22788	0x5904	2	Ph-N voltage: V1h1	V / 100	U32
22790	0x5906	2	Ph-N voltage: V2h1	V / 100	U32
22792	0x5908	2	Ph-N voltage: V3h1	V / 100	U32
22794	0x590A	2	Ph-N voltage: Vnh1	V / 100	U32
22796	0x590C	1	Ph-N voltage phase: phV1h1	? / 10	S16
22797	0x590D	1	Ph-N voltage phase: phV2h1	? / 10	S16
22798	0x590E	1	Ph-N voltage phase: phV3h1	? / 10	S16
22799	0x590F	1	Ph-N voltage phase: phVnh1	? / 10	S16
22800	0x5910	2	Ph-Ph voltage: U12h1	V / 100	U32
22802	0x5912	2	Ph-Ph voltage: U23h1	V / 100	U32
22804	0x5914	2	Ph-Ph voltage: U31h1	V / 100	U32
22806	0x5916	1	Ph-Ph voltage phase: phU12h1	? / 10	S16
22807	0x5917	1	Ph-Ph voltage phase: phU23h1	? / 10	S16
22808	0x5918	1	Ph-Ph voltage phase: phU31h1	? / 10	S16

## General Application

22819	0x5923	1	Current phase: phi3h1	? / 10	S16
22820	0x5924	1	Current phase: phi1nh1	? / 10	S16
22821	0x5925	1	phi current voltage: phi1h1V1h1	? / 10	S16
22822	0x5926	1	phi current voltage: phi12h1V2h1	? / 10	S16
22823	0x5927	1	phi current voltage: phi13h1V3h1	? / 10	S16
22824	0x5928	1	phi current voltage: phi1nh1Vnh1	? / 10	S16
22825	0x5929	2	Reserved	-	-
22827	0x592B	2	Reserved	-	-
22829	0x592D	2	Reserved	-	-
22831	0x592F	2	Reserved	-	-
22833	0x5931	2	Reserved	-	-
22835	0x5933	2	Reserved	-	-
22837	0x5935	2	Reserved	-	-
22839	0x5937	2	Reserved	-	-
22841	0x5939	1	Reserved	-	-
22842	0x593A	1	Reserved	-	-
22843	0x593B	1	Reserved	-	-
22844	0x593C	1	Reserved	-	-
22845	0x593D	1	Reserved	-	-
22846	0x593E	1	Reserved	-	-
22847	0x593F	1	Reserved	-	-
22848	0x5940	1	Reserved	-	-
22849	0x5941	1	Reserved	-	-
22850	0x5942	1	Reserved	-	-
22851	0x5943	1	Reserved	-	-
22852	0x5944	1	Reserved	-	-
22853	0x5945	1	Reserved	-	-
22854	0x5946	1	Reserved	-	-
22855	0x5947	1	Reserved	-	-
22856	0x5948	1	Reserved	-	-
22857	0x5949	1	Reserved	-	-
22858	0x594A	1	Reserved	-	-
22859	0x594B	1	Reserved	-	-
22860	0x594C	1	Reserved	-	-

**Inst. fundamental measurement - Load #4**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
24832	0x6100	Info	77	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
24832	0x6100	1	Load status 0 : Disabled 1 : Enabled	-	U8

## General Application

24844	0x610C	1	Ph-N voltage phase: phV1h1	? / 10	S16
24845	0x610D	1	Ph-N voltage phase: phV2h1	? / 10	S16
24846	0x610E	1	Ph-N voltage phase: phV3h1	? / 10	S16
24847	0x610F	1	Ph-N voltage phase: phVnh1	? / 10	S16
24848	0x6110	2	Ph-Ph voltage: U12h1	V / 100	U32
24850	0x6112	2	Ph-Ph voltage: U23h1	V / 100	U32
24852	0x6114	2	Ph-Ph voltage: U31h1	V / 100	U32
24854	0x6116	1	Ph-Ph voltage phase: phU12h1	? / 10	S16
24855	0x6117	1	Ph-Ph voltage phase: phU23h1	? / 10	S16
24856	0x6118	1	Ph-Ph voltage phase: phU31h1	? / 10	S16
24857	0x6119	2	Current: I1h1	A / 1000	U32
24859	0x611B	2	Current: I2h1	A / 1000	U32
24861	0x611D	2	Current: I3h1	A / 1000	U32
24863	0x611F	2	Current: Inh1	A / 1000	U32
24865	0x6121	1	Current phase: phI1h1	? / 10	S16
24866	0x6122	1	Current phase: phI2h1	? / 10	S16
24867	0x6123	1	Current phase: phI3h1	? / 10	S16
24868	0x6124	1	Current phase: phInh1	? / 10	S16
24869	0x6125	1	phi current voltage: phiI1h1V1h1	? / 10	S16
24870	0x6126	1	phi current voltage: phiI2h1V2h1	? / 10	S16
24871	0x6127	1	phi current voltage: phiI3h1V3h1	? / 10	S16
24872	0x6128	1	phi current voltage: phiInh1Vnh1	? / 10	S16
24873	0x6129	2	Reserved	-	-
24875	0x612B	2	Reserved	-	-
24877	0x612D	2	Reserved	-	-
24879	0x612F	2	Reserved	-	-
24881	0x6131	2	Reserved	-	-
24883	0x6133	2	Reserved	-	-
24885	0x6135	2	Reserved	-	-
24887	0x6137	2	Reserved	-	-
24889	0x6139	1	Reserved	-	-
24890	0x613A	1	Reserved	-	-
24891	0x613B	1	Reserved	-	-
24892	0x613C	1	Reserved	-	-
24893	0x613D	1	Reserved	-	-
24894	0x613E	1	Reserved	-	-
24895	0x613F	1	Reserved	-	-
24896	0x6140	1	Reserved	-	-
24897	0x6141	1	Reserved	-	-
24898	0x6142	1	Reserved	-	-
24899	0x6143	1	Reserved	-	-
24900	0x6144	1	Reserved	-	-
24901	0x6145	1	Reserved	-	-
24902	0x6146	1	Reserved	-	-

General

Application

**Inst. fundamental measurement - Load #5**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
26880	0x6900	Info	77	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
26880	0x6900	1	Load status 0 : Disabled 1 : Enabled	-	U8
26881	0x6901	2	Date of last instance	s	DATETI
26883	0x6903	1	Integration time	s / 5	U16
26884	0x6904	2	Ph-N voltage: V1h1	V / 100	U32
26886	0x6906	2	Ph-N voltage: V2h1	V / 100	U32
26888	0x6908	2	Ph-N voltage: V3h1	V / 100	U32
26890	0x690A	2	Ph-N voltage: Vnh1	V / 100	U32
26892	0x690C	1	Ph-N voltage phase: phV1h1	? / 10	S16
26893	0x690D	1	Ph-N voltage phase: phV2h1	? / 10	S16
26894	0x690E	1	Ph-N voltage phase: phV3h1	? / 10	S16
26895	0x690F	1	Ph-N voltage phase: phVnh1	? / 10	S16
26896	0x6910	2	Ph-Ph voltage: U12h1	V / 100	U32
26898	0x6912	2	Ph-Ph voltage: U23h1	V / 100	U32
26900	0x6914	2	Ph-Ph voltage: U31h1	V / 100	U32
26902	0x6916	1	Ph-Ph voltage phase: phU12h1	? / 10	S16
26903	0x6917	1	Ph-Ph voltage phase: phU23h1	? / 10	S16
26904	0x6918	1	Ph-Ph voltage phase: phU31h1	? / 10	S16
26905	0x6919	2	Current: I1h1	A / 1000	U32
26907	0x691B	2	Current: I2h1	A / 1000	U32
26909	0x691D	2	Current: I3h1	A / 1000	U32
26911	0x691F	2	Current: Inh1	A / 1000	U32
26913	0x6921	1	Current phase: phI1h1	? / 10	S16
26914	0x6922	1	Current phase: phI2h1	? / 10	S16
26915	0x6923	1	Current phase: phI3h1	? / 10	S16
26916	0x6924	1	Current phase: phInh1	? / 10	S16
26917	0x6925	1	phi current voltage: phiI1h1V1h1	? / 10	S16
26918	0x6926	1	phi current voltage: phiI2h1V2h1	? / 10	S16
26919	0x6927	1	phi current voltage: phiI3h1V3h1	? / 10	S16
26920	0x6928	1	phi current voltage: phiInh1Vnh1	? / 10	S16
26921	0x6929	2	Reserved	-	-
26923	0x692B	2	Reserved	-	-
26925	0x692D	2	Reserved	-	-
26927	0x692F	2	Reserved	-	-
26929	0x6931	2	Reserved	-	-
26931	0x6933	2	Reserved	-	-
26933	0x6935	2	Reserved	-	-

## General Application

26942	0x693E	1	Reserved	-	-
26943	0x693F	1	Reserved	-	-
26944	0x6940	1	Reserved	-	-
26945	0x6941	1	Reserved	-	-
26946	0x6942	1	Reserved	-	-
26947	0x6943	1	Reserved	-	-
26948	0x6944	1	Reserved	-	-
26949	0x6945	1	Reserved	-	-
26950	0x6946	1	Reserved	-	-
26951	0x6947	1	Reserved	-	-
26952	0x6948	1	Reserved	-	-
26953	0x6949	1	Reserved	-	-
26954	0x694A	1	Reserved	-	-
26955	0x694B	1	Reserved	-	-
26956	0x694C	1	Reserved	-	-

**Inst. fundamental measurement - Load #6**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
28928	0x7100	Info	77	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
28928	0x7100	1	Load status 0 : Disabled 1 : Enabled	-	U8
28929	0x7101	2	Date of last instance	s	DATETI
28931	0x7103	1	Integration time	s / 5	U16
28932	0x7104	2	Ph-N voltage: V1h1	V / 100	U32
28934	0x7106	2	Ph-N voltage: V2h1	V / 100	U32
28936	0x7108	2	Ph-N voltage: V3h1	V / 100	U32
28938	0x710A	2	Ph-N voltage: Vnh1	V / 100	U32
28940	0x710C	1	Ph-N voltage phase: phV1h1	? / 10	S16
28941	0x710D	1	Ph-N voltage phase: phV2h1	? / 10	S16
28942	0x710E	1	Ph-N voltage phase: phV3h1	? / 10	S16
28943	0x710F	1	Ph-N voltage phase: phVnh1	? / 10	S16
28944	0x7110	2	Ph-Ph voltage: U12h1	V / 100	U32
28946	0x7112	2	Ph-Ph voltage: U23h1	V / 100	U32
28948	0x7114	2	Ph-Ph voltage: U31h1	V / 100	U32
28950	0x7116	1	Ph-Ph voltage phase: phU12h1	? / 10	S16
28951	0x7117	1	Ph-Ph voltage phase: phU23h1	? / 10	S16
28952	0x7118	1	Ph-Ph voltage phase: phU31h1	? / 10	S16
28953	0x7119	2	Current: I1h1	A / 1000	U32
28955	0x711B	2	Current: I2h1	A / 1000	U32
28957	0x711D	2	Current: I3h1	A / 1000	U32



## General

## Application

28966	0x7126	1	phi current voltage: phi12h1V2h1	? / 10	S16
28967	0x7127	1	phi current voltage: phi13h1V3h1	? / 10	S16
28968	0x7128	1	phi current voltage: phi1nh1Vnh1	? / 10	S16
28969	0x7129	2	Reserved	-	-
28971	0x712B	2	Reserved	-	-
28973	0x712D	2	Reserved	-	-
28975	0x712F	2	Reserved	-	-
28977	0x7131	2	Reserved	-	-
28979	0x7133	2	Reserved	-	-
28981	0x7135	2	Reserved	-	-
28983	0x7137	2	Reserved	-	-
28985	0x7139	1	Reserved	-	-
28986	0x713A	1	Reserved	-	-
28987	0x713B	1	Reserved	-	-
28988	0x713C	1	Reserved	-	-
28989	0x713D	1	Reserved	-	-
28990	0x713E	1	Reserved	-	-
28991	0x713F	1	Reserved	-	-
28992	0x7140	1	Reserved	-	-
28993	0x7141	1	Reserved	-	-
28994	0x7142	1	Reserved	-	-
28995	0x7143	1	Reserved	-	-
28996	0x7144	1	Reserved	-	-
28997	0x7145	1	Reserved	-	-
28998	0x7146	1	Reserved	-	-
28999	0x7147	1	Reserved	-	-
29000	0x7148	1	Reserved	-	-
29001	0x7149	1	Reserved	-	-
29002	0x714A	1	Reserved	-	-
29003	0x714B	1	Reserved	-	-
29004	0x714C	1	Reserved	-	-

**Energy measurement - Load #1**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
19840	0x4D80	Info	60	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
19840	0x4D80	1	Load status : 0 : Disabled 1 : Enabled	-	U8
19841	0x4D81	2	Total Positive active Energy : Ea+	Wh / 0.001	U32
19843	0x4D83	1	Total Residual positive active Energy : rEa+	Wh / 10	U16
19844	0x4D84	2	Total Negative active Energy : Ea-	Wh / 0.001	U32

## General

## Application

19855	0x4D8F	1	Total Residual apparent Energy : rEap	VAh / 10	U16
19856	0x4D90	2	Total positive lagging reactive Energy : Er+ (lagging)	varh / 0.001	U32
19858	0x4D92	1	Total residual positive lagging reactive Energy : rEr+ (lagging)	varh / 10	U16
19859	0x4D93	2	Total negative lagging reactive Energy : Er- (lagging)	varh / 0.001	U32
19861	0x4D95	1	Total residual negative lagging reactive Energy : rEr- (lagging)	varh / 10	U16
19862	0x4D96	2	Total positive leading reactive Energy : Er+ (leading)	varh / 0.001	U32
19864	0x4D98	1	Total residual positive leading reactive Energy : rEr+ (leading)	varh / 10	U16
19865	0x4D99	2	Total negative leading reactive Energy : Er- (leading)	varh / 0.001	U32
19867	0x4D9B	1	Total residual negative leading reactive Energy : rEr- (leading)	varh / 10	U16
19868	0x4D9C	2	Partial positive active Energy : Ea+	Wh / 0.001	U32
19870	0x4D9E	1	Partial residual positive active Energy : rEa+	Wh / 10	U16
19871	0x4D9F	2	Partial negative active Energy : Ea-	Wh / 0.001	U32
19873	0x4DA1	1	Partial residual negative active Energy : rEa-	Wh / 10	U16
19874	0x4DA2	2	Partial positive reactive Energy : Er+	varh / 0.001	U32
19876	0x4DA4	1	Partial residual positive reactive Energy : rEr+	varh / 10	U16
19877	0x4DA5	2	Partial negative reactive Energy : Er-	varh / 0.001	U32
19879	0x4DA7	1	Partial residual negative reactive Energy : rEr-	varh / 10	U16
19880	0x4DA8	2	Partial Apparent Energy : Eap	VAh / 0.001	U32
19882	0x4DAA	1	Partial residual apparent Energy : rEap	VAh / 10	U16
19883	0x4DAB	2	Last Partial Reset date	-	DATETI
19885	0x4DAD	2	Last Partial positive active Energy : Ea+	Wh / 0.001	U32
19887	0x4DAF	1	Last Partial residual positive active Energy : rEa+	Wh / 10	U16
19888	0x4DB0	2	Last Partial negative active Energy : Ea-	Wh / 0.001	U32
19890	0x4DB2	1	Last Partial residual negative active Energy : rEa-	Wh / 10	U16
19891	0x4DB3	2	Last Partial positive reactive Energy : Er+	varh / 0.001	U32
19893	0x4DB5	1	Last Partial residual positive reactive Energy : rEr+	varh / 10	U16
19894	0x4DB6	2	Last Partial negative reactive Energy : Er-	varh / 0.001	U32
19896	0x4DB8	1	Last Partial residual negative reactive Energy : rEr-	varh / 10	U16
19897	0x4DB9	2	Last Partial Apparent Energy : Eap	VAh / 0.001	U32
19899	0x4DBB	1	Last Partial residual apparent Energy : rEap	VAh / 10	U16

**Energy measurement - Load #2**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
21888	0x5580	Info	60	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
21888	0x5580	1	Load status : 0 : Disabled 1 : Enabled	-	U8
21889	0x5581	2	Total Positive active Energy : Ea+	Wh / 0.001	U32
21891	0x5583	1	Total Residual positive active Energy : rEa+	Wh / 10	U16
21892	0x5584	2	Total Negative active Energy : Ea-	Wh / 0.001	U32
21894	0x5586	1	Total Residual negative active Energy : rEa-	Wh / 10	U16

## General

## Application

21904	0x5590	2	Total positive lagging reactive Energy : Er+ (lagging)	varh / 0.001	U32
21906	0x5592	1	Total residual positive lagging reactive Energy : rEr+ (lagging)	varh / 10	U16
21907	0x5593	2	Total negative lagging reactive Energy : Er- (lagging)	varh / 0.001	U32
21909	0x5595	1	Total residual negative lagging reactive Energy : rEr- (lagging)	varh / 10	U16
21910	0x5596	2	Total positive leading reactive Energy : Er+ (leading)	varh / 0.001	U32
21912	0x5598	1	Total residual positive leading reactive Energy : rEr+ (leading)	varh / 10	U16
21913	0x5599	2	Total negative leading reactive Energy : Er- (leading)	varh / 0.001	U32
21915	0x559B	1	Total residual negative leading reactive Energy : rEr- (leading)	varh / 10	U16
21916	0x559C	2	Partial positive active Energy : Ea+	Wh / 0.001	U32
21918	0x559E	1	Partial residual positive active Energy : rEa+	Wh / 10	U16
21919	0x559F	2	Partial negative active Energy : Ea-	Wh / 0.001	U32
21921	0x55A1	1	Partial residual negative active Energy : rEa-	Wh / 10	U16
21922	0x55A2	2	Partial positive reactive Energy : Er+	varh / 0.001	U32
21924	0x55A4	1	Partial residual positive reactive Energy : rEr+	varh / 10	U16
21925	0x55A5	2	Partial negative reactive Energy : Er-	varh / 0.001	U32
21927	0x55A7	1	Partial residual negative reactive Energy : rEr-	varh / 10	U16
21928	0x55A8	2	Partial Apparent Energy : Eap	VAh / 0.001	U32
21930	0x55AA	1	Partial residual apparent Energy : rEap	VAh / 10	U16
21931	0x55AB	2	Last Partial Reset date	-	DATETI
21933	0x55AD	2	Last Partial positive active Energy : Ea+	Wh / 0.001	U32
21935	0x55AF	1	Last Partial residual positive active Energy : rEa+	Wh / 10	U16
21936	0x55B0	2	Last Partial negative active Energy : Ea-	Wh / 0.001	U32
21938	0x55B2	1	Last Partial residual negative active Energy : rEa-	Wh / 10	U16
21939	0x55B3	2	Last Partial positive reactive Energy : Er+	varh / 0.001	U32
21941	0x55B5	1	Last Partial residual positive reactive Energy : rEr+	varh / 10	U16
21942	0x55B6	2	Last Partial negative reactive Energy : Er-	varh / 0.001	U32
21944	0x55B8	1	Last Partial residual negative reactive Energy : rEr-	varh / 10	U16
21945	0x55B9	2	Last Partial Apparent Energy : Eap	VAh / 0.001	U32
21947	0x55BB	1	Last Partial residual apparent Energy : rEap	VAh / 10	U16

**Energy measurement - Load #3**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
23936	0x5D80	Info	60	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
23936	0x5D80	1	Load status : 0 : Disabled 1 : Enabled	-	U8
23937	0x5D81	2	Total Positive active Energy : Ea+	Wh / 0.001	U32
23939	0x5D83	1	Total Residual positive active Energy : rEa+	Wh / 10	U16
23940	0x5D84	2	Total Negative active Energy : Ea-	Wh / 0.001	U32
23942	0x5D86	1	Total Residual negative active Energy : rEa-	Wh / 10	U16
23943	0x5D87	2	Total Positive reactive Energy : Er+	varh / 0.001	U32

## General Application

23954	0x5D92	1	Total residual positive lagging reactive Energy : rEr+ (lagging)	varh / 10	U16
23955	0x5D93	2	Total negative lagging reactive Energy : Er- (lagging)	varh / 0.001	U32
23957	0x5D95	1	Total residual negative lagging reactive Energy : rEr- (lagging)	varh / 10	U16
23958	0x5D96	2	Total positive leading reactive Energy : Er+ (leading)	varh / 0.001	U32
23960	0x5D98	1	Total residual positive leading reactive Energy : rEr+ (leading)	varh / 10	U16
23961	0x5D99	2	Total negative leading reactive Energy : Er- (leading)	varh / 0.001	U32
23963	0x5D9B	1	Total residual negative leading reactive Energy : rEr- (leading)	varh / 10	U16
23964	0x5D9C	2	Partial positive active Energy : Ea+	Wh / 0.001	U32
23966	0x5D9E	1	Partial residual positive active Energy : rEa+	Wh / 10	U16
23967	0x5D9F	2	Partial negative active Energy : Ea-	Wh / 0.001	U32
23969	0x5DA1	1	Partial residual negative active Energy : rEa-	Wh / 10	U16
23970	0x5DA2	2	Partial positive reactive Energy : Er+	varh / 0.001	U32
23972	0x5DA4	1	Partial residual positive reactive Energy : rEr+	varh / 10	U16
23973	0x5DA5	2	Partial negative reactive Energy : Er-	varh / 0.001	U32
23975	0x5DA7	1	Partial residual negative reactive Energy : rEr-	varh / 10	U16
23976	0x5DA8	2	Partial Apparent Energy : Eap	VAh / 0.001	U32
23978	0x5DAA	1	Partial residual apparent Energy : rEap	VAh / 10	U16
23979	0x5DAB	2	Last Partial Reset date	-	DATETI
23981	0x5DAD	2	Last Partial positive active Energy : Ea+	Wh / 0.001	U32
23983	0x5DAF	1	Last Partial residual positive active Energy : rEa+	Wh / 10	U16
23984	0x5DB0	2	Last Partial negative active Energy : Ea-	Wh / 0.001	U32
23986	0x5DB2	1	Last Partial residual negative active Energy : rEa-	Wh / 10	U16
23987	0x5DB3	2	Last Partial positive reactive Energy : Er+	varh / 0.001	U32
23989	0x5DB5	1	Last Partial residual positive reactive Energy : rEr+	varh / 10	U16
23990	0x5DB6	2	Last Partial negative reactive Energy : Er-	varh / 0.001	U32
23992	0x5DB8	1	Last Partial residual negative reactive Energy : rEr-	varh / 10	U16
23993	0x5DB9	2	Last Partial Apparent Energy : Eap	VAh / 0.001	U32
23995	0x5DBB	1	Last Partial residual apparent Energy : rEap	VAh / 10	U16

**Energy measurement - Load #4**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
25984	0x6580	Info	60	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
25984	0x6580	1	Load status : 0 : Disabled 1 : Enabled	-	U8
25985	0x6581	2	Total Positive active Energy : Ea+	Wh / 0.001	U32
25987	0x6583	1	Total Residual positive active Energy : rEa+	Wh / 10	U16
25988	0x6584	2	Total Negative active Energy : Ea-	Wh / 0.001	U32
25990	0x6586	1	Total Residual negative active Energy : rEa-	Wh / 10	U16
25991	0x6587	2	Total Positive reactive Energy : Er+	varh / 0.001	U32
25992	0x6588	1	Total Residual positive reactive Energy : rEr+	varh / 10	U16

## General Application

26003	0x6593	2	Total negative lagging reactive Energy : Er- (lagging)	varh / 0.001	U32
26005	0x6595	1	Total residual negative lagging reactive Energy : rEr- (lagging)	varh / 10	U16
26006	0x6596	2	Total positive leading reactive Energy : Er+ (leading)	varh / 0.001	U32
26008	0x6598	1	Total residual positive leading reactive Energy : rEr+ (leading)	varh / 10	U16
26009	0x6599	2	Total negative leading reactive Energy : Er- (leading)	varh / 0.001	U32
26011	0x659B	1	Total residual negative leading reactive Energy : rEr- (leading)	varh / 10	U16
26012	0x659C	2	Partial positive active Energy : Ea+	Wh / 0.001	U32
26014	0x659E	1	Partial residual positive active Energy : rEa+	Wh / 10	U16
26015	0x659F	2	Partial negative active Energy : Ea-	Wh / 0.001	U32
26017	0x65A1	1	Partial residual negative active Energy : rEa-	Wh / 10	U16
26018	0x65A2	2	Partial positive reactive Energy : Er+	varh / 0.001	U32
26020	0x65A4	1	Partial residual positive reactive Energy : rEr+	varh / 10	U16
26021	0x65A5	2	Partial negative reactive Energy : Er-	varh / 0.001	U32
26023	0x65A7	1	Partial residual negative reactive Energy : rEr-	varh / 10	U16
26024	0x65A8	2	Partial Apparent Energy : Eap	VAh / 0.001	U32
26026	0x65AA	1	Partial residual apparent Energy : rEap	VAh / 10	U16
26027	0x65AB	2	Last Partial Reset date	-	DATETI
26029	0x65AD	2	Last Partial positive active Energy : Ea+	Wh / 0.001	U32
26031	0x65AF	1	Last Partial residual positive active Energy : rEa+	Wh / 10	U16
26032	0x65B0	2	Last Partial negative active Energy : Ea-	Wh / 0.001	U32
26034	0x65B2	1	Last Partial residual negative active Energy : rEa-	Wh / 10	U16
26035	0x65B3	2	Last Partial positive reactive Energy : Er+	varh / 0.001	U32
26037	0x65B5	1	Last Partial residual positive reactive Energy : rEr+	varh / 10	U16
26038	0x65B6	2	Last Partial negative reactive Energy : Er-	varh / 0.001	U32
26040	0x65B8	1	Last Partial residual negative reactive Energy : rEr-	varh / 10	U16
26041	0x65B9	2	Last Partial Apparent Energy : Eap	VAh / 0.001	U32
26043	0x65BB	1	Last Partial residual apparent Energy : rEap	VAh / 10	U16

**Energy measurement - Load #5**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
28032	0x6D80	Info	60	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
28032	0x6D80	1	Load status : 0 : Disabled 1 : Enabled	-	U8
28033	0x6D81	2	Total Positive active Energy : Ea+	Wh / 0.001	U32
28035	0x6D83	1	Total Residual positive active Energy : rEa+	Wh / 10	U16
28036	0x6D84	2	Total Negative active Energy : Ea-	Wh / 0.001	U32
28038	0x6D86	1	Total Residual negative active Energy : rEa-	Wh / 10	U16
28039	0x6D87	2	Total Positive reactive Energy : Er+	varh / 0.001	U32
28041	0x6D89	1	Total Residual positive reactive Energy : rEr+	varh / 10	U16
28042	0x6D8A	2	Total Negative reactive Energy : Er-	varh / 0.001	U32

## General Application

28053	0x6D95	1	Total residual negative lagging reactive Energy : rEr- (lagging)	varh / 10	U16
28054	0x6D96	2	Total positive leading reactive Energy : Er+ (leading)	varh / 0.001	U32
28056	0x6D98	1	Total residual positive leading reactive Energy : rEr+ (leading)	varh / 10	U16
28057	0x6D99	2	Total negative leading reactive Energy : Er- (leading)	varh / 0.001	U32
28059	0x6D9B	1	Total residual negative leading reactive Energy : rEr- (leading)	varh / 10	U16
28060	0x6D9C	2	Partial positive active Energy : Ea+	Wh / 0.001	U32
28062	0x6D9E	1	Partial residual positive active Energy : rEa+	Wh / 10	U16
28063	0x6D9F	2	Partial negative active Energy : Ea-	Wh / 0.001	U32
28065	0x6DA1	1	Partial residual negative active Energy : rEa-	Wh / 10	U16
28066	0x6DA2	2	Partial positive reactive Energy : Er+	varh / 0.001	U32
28068	0x6DA4	1	Partial residual positive reactive Energy : rEr+	varh / 10	U16
28069	0x6DA5	2	Partial negative reactive Energy : Er-	varh / 0.001	U32
28071	0x6DA7	1	Partial residual negative reactive Energy : rEr-	varh / 10	U16
28072	0x6DA8	2	Partial Apparent Energy : Eap	VAh / 0.001	U32
28074	0x6DAA	1	Partial residual apparent Energy : rEap	VAh / 10	U16
28075	0x6DAB	2	Last Partial Reset date	-	DATETI
28077	0x6DAD	2	Last Partial positive active Energy : Ea+	Wh / 0.001	U32
28079	0x6DAF	1	Last Partial residual positive active Energy : rEa+	Wh / 10	U16
28080	0x6DB0	2	Last Partial negative active Energy : Ea-	Wh / 0.001	U32
28082	0x6DB2	1	Last Partial residual negative active Energy : rEa-	Wh / 10	U16
28083	0x6DB3	2	Last Partial positive reactive Energy : Er+	varh / 0.001	U32
28085	0x6DB5	1	Last Partial residual positive reactive Energy : rEr+	varh / 10	U16
28086	0x6DB6	2	Last Partial negative reactive Energy : Er-	varh / 0.001	U32
28088	0x6DB8	1	Last Partial residual negative reactive Energy : rEr-	varh / 10	U16
28089	0x6DB9	2	Last Partial Apparent Energy : Eap	VAh / 0.001	U32
28091	0x6DBB	1	Last Partial residual apparent Energy : rEap	VAh / 10	U16

**Energy measurement - Load #6**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
30080	0x7580	Info	60	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
30080	0x7580	1	Load status : 0 : Disabled 1 : Enabled	-	U8
30081	0x7581	2	Total Positive active Energy : Ea+	Wh / 0.001	U32
30083	0x7583	1	Total Residual positive active Energy : rEa+	Wh / 10	U16
30084	0x7584	2	Total Negative active Energy : Ea-	Wh / 0.001	U32
30086	0x7586	1	Total Residual negative active Energy : rEa-	Wh / 10	U16
30087	0x7587	2	Total Positive reactive Energy : Er+	varh / 0.001	U32
30089	0x7589	1	Total Residual positive reactive Energy : rEr+	varh / 10	U16
30090	0x758A	2	Total Negative reactive Energy : Er-	varh / 0.001	U32
30092	0x758C	1	Total Residual negative reactive Energy : rEr-	varh / 10	U16

## General

## Application

30102	0x7596	2	Total positive leading reactive Energy : Er+ (leading)	varh / 0.001	U32
30104	0x7598	1	Total residual positive leading reactive Energy : rEr+ (leading)	varh / 10	U16
30105	0x7599	2	Total negative leading reactive Energy : Er- (leading)	varh / 0.001	U32
30107	0x759B	1	Total residual negative leading reactive Energy : rEr- (leading)	varh / 10	U16
30108	0x759C	2	Partial positive active Energy : Ea+	Wh / 0.001	U32
30110	0x759E	1	Partial residual positive active Energy : rEa+	Wh / 10	U16
30111	0x759F	2	Partial negative active Energy : Ea-	Wh / 0.001	U32
30113	0x75A1	1	Partial residual negative active Energy : rEa-	Wh / 10	U16
30114	0x75A2	2	Partial positive reactive Energy : Er+	varh / 0.001	U32
30116	0x75A4	1	Partial residual positive reactive Energy : rEr+	varh / 10	U16
30117	0x75A5	2	Partial negative reactive Energy : Er-	varh / 0.001	U32
30119	0x75A7	1	Partial residual negative reactive Energy : rEr-	varh / 10	U16
30120	0x75A8	2	Partial Apparent Energy : Eap	VAh / 0.001	U32
30122	0x75AA	1	Partial residual apparent Energy : rEap	VAh / 10	U16
30123	0x75AB	2	Last Partial Reset date	-	DATETI
30125	0x75AD	2	Last Partial positive active Energy : Ea+	Wh / 0.001	U32
30127	0x75AF	1	Last Partial residual positive active Energy : rEa+	Wh / 10	U16
30128	0x75B0	2	Last Partial negative active Energy : Ea-	Wh / 0.001	U32
30130	0x75B2	1	Last Partial residual negative active Energy : rEa-	Wh / 10	U16
30131	0x75B3	2	Last Partial positive reactive Energy : Er+	varh / 0.001	U32
30133	0x75B5	1	Last Partial residual positive reactive Energy : rEr+	varh / 10	U16
30134	0x75B6	2	Last Partial negative reactive Energy : Er-	varh / 0.001	U32
30136	0x75B8	1	Last Partial residual negative reactive Energy : rEr-	varh / 10	U16
30137	0x75B9	2	Last Partial Apparent Energy : Eap	VAh / 0.001	U32
30139	0x75BB	1	Last Partial residual apparent Energy : rEap	VAh / 10	U16

## Monitoring

## Alarms

## System alarm current status #1

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
38496	0x9660	Info	23	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
38496	0x9660	1	Ack ID	-	U16
38497	0x9661	1	Status : 0 : Inactive 1 : Active 2 : Finished 3 : FinishedAndAck	-	U16
38498	0x9662	1	Alarm Type	-	U16



## General

## Application

38500	0x9664	1	Criticality : 0 : Information 1 : Not critical 2 : Critical	-	U16
38501	0x9665	2	Start date	-	DATETI
38503	0x9667	2	Duration	-	U32
38505	0x9669	1	Startup delay	s / 2	U16
38506	0x966A	1	Dropout delay	s / 2	U16
38507	0x966B	2	Reserved	-	-
38509	0x966D	1	Line I 0 : eMspLine1 1 : eMspLine2 2 : eMspLine3 3 : eMspLine4 4 : eMspLine5 5 : eMspLine6 255 : eMspLineUndefined	-	U16
38510	0x966E	1	Reserved	-	-
38511	0x966F	4	Reserved	-	-
38515	0x9673	4	Reserved	-	-

**System alarm current status #2**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
38520	0x9678	Info	23	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
38520	0x9678	1	Ack ID	-	U16
38521	0x9679	1	Status : 0 : Inactive 1 : Active 2 : Finished 3 : FinishedAndAck	-	U16
38522	0x967A	1	Alarm Type 0 : None 1 : Net rotation 2 : V/I association 3 : CT disconnected 10 : Bad CT prim	-	U16
38523	0x967B	1	Alarm cause : 0 : Cause Unknown 12 : System Active	-	U16
38524	0x967C	1	Criticality : 0 : Information 1 : Not critical 2 : Critical	-	U16
38525	0x967D	2	Start date	-	DATETI
38527	0x967F	2	Duration	-	U32
38529	0x9681	1	Startup delay	s / 2	U16
38530	0x9682	1	Dropout delay	s / 2	U16
38531	0x9683	2	Reserved	-	-



## General

## Application

38535	0x9687	4	Reserved	-	-
38539	0x968B	4	Reserved	-	-

**System alarm current status #3**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
38544	0x9690	Info	23	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
38544	0x9690	1	Ack ID	-	U16
38545	0x9691	1	Status : 0 : Inactive 1 : Active 2 : Finished 3 : FinishedAndAck	-	U16
38546	0x9692	1	Alarm Type 0 : None 1 : Net rotation 2 : V/I association 3 : CT disconnected 10 : Bad CT prim	-	U16
38547	0x9693	1	Alarm cause : 0 : Cause Unknown 12 : System Active	-	U16
38548	0x9694	1	Criticality : 0 : Information 1 : Not critical 2 : Critical	-	U16
38549	0x9695	2	Start date	-	DATETI
38551	0x9697	2	Duration	-	U32
38553	0x9699	1	Startup delay	s / 2	U16
38554	0x969A	1	Dropout delay	s / 2	U16
38555	0x969B	2	Reserved	-	-
38557	0x969D	1	Line I 0 : eMspLine1 1 : eMspLine2 2 : eMspLine3 3 : eMspLine4 4 : eMspLine5 5 : eMspLine6 255 : eMspLineUndefined	-	U16
38558	0x969E	1	Reserved	-	-
38559	0x969F	4	Reserved	-	-
38563	0x96A3	4	Reserved	-	-

**Acknowledgment of alarms**

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
39616	0x9AC0	Commands	1	NONE	WRITE	WRITE

## General Application

## Command

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
39632	0x9AD0	Command	1	NONE	WRITE_MANY	WRITE_MANY

Dec address	Hex address	Words count	Description	Unit	Data ty
39632	0x9AD0	1	Start record number (0 to 65534) or 65535 for last record	-	U16

## Header

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
39648	0x9AE0	Header	3	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
39648	0x9AE0	1	Next record number	-	U16
39649	0x9AE1	1	Items count (max 7 per request)	-	U16
39650	0x9AE2	1	Item size (words)	-	U16

## Data

Dec start address	Hex start address	Type	Size	Lock level	Locked fcts	Unlocked fcts
39651	0x9AE3	Data	21	NONE	READ	READ

Dec address	Hex address	Words count	Description	Unit	Data ty
39651	0x9AE3	1	Alarm cause 0 : Cause Unknown 1 : Analog. High Th. Single 2 : Analog. High Th. Tri. And 3 : Analog. High Th. Tri. Or 4 : Analog. Low Th Single 5 : Analog. Low Th. Tri. And 6 : Analog. Low Th. Tri. Or 7 : Logical Active 8 : Combi. And 9 : Combi. Or 10 : EN50160 Active 11 : Inrush Active 12 : System Active	-	U16
39652	0x9AE4	1	Criticality : 0 : Information 1 : Not Critical 2 : Critical	-	U16
39653	0x9AE5	2	Start date	-	DATETI
39655	0x9AE7	2	Duration	-	U32
39657	0x9AE9	2	Specific data 1 (depend on alarm type)	-	U32
39659	0x9AEB	1	Specific data 2 (depend on alarm type)	-	U16
39660	0x9AEC	1	Specific data 3 (depend on alarm type)	-	U16
39661	0x9AED	1	Specific data 4 (depend on alarm type)	-	U16
39662	0x9AEE	1	Specific data 5 (depend on alarm type)	-	U16

General      Application

