

COSYS PFC Modbus Address List

Address	Format	Identifier	Unit	RW	Description
0	float	L1 cos phi	cos(phi)	R	($0 \leq \cos \phi < 1$) system is inductive ($1 < \cos \phi \leq 2$) system is capacitive
4	float	L1 voltage	V	R	
8	float	L1 current	A	R	
12	float	L1 active power	kW	R	
16	float	L1 reactive power	kvar	R	
20	float	L1 apparent power	kVA	R	
36	float	L2 cos phi	cos(phi)	R	($0 \leq \cos \phi < 1$) system is inductive ($1 < \cos \phi \leq 2$) system is capacitive
40	float	L2 voltage	V	R	
44	float	L2 current	A	R	
48	float	L2 active power	kW	R	
52	float	L2 reactive power	kvar	R	
56	float	L2 apparent power	kVA	R	
72	float	L3 cos phi	cos(phi)	R	($0 \leq \cos \phi < 1$) system is inductive ($1 < \cos \phi \leq 2$) system is capacitive
76	float	L3 voltage	V	R	
80	float	L3 current	A	R	
84	float	L3 active power	kW	R	
88	float	L3 reactive power	kvar	R	
92	float	L3 apparent power	kVA	R	
128	uint16	L1 V H01	%	R	
130	uint16	L1 V H02	%	R	
132	uint16	L1 V H03	%	R	
134	uint16	L1 V H04	%	R	
136	uint16	L1 V H05	%	R	
138	uint16	L1 V H06	%	R	
140	uint16	L1 V H07	%	R	
142	uint16	L1 V H08	%	R	
144	uint16	L1 V H09	%	R	

Address	Format	Identifier	Unit	RW	Description
146	uint16	L1 V H10	%	R	
148	uint16	L1 V H11	%	R	
150	uint16	L1 V H12	%	R	
152	uint16	L1 V H13	%	R	
154	uint16	L1 V H14	%	R	
156	uint16	L1 V H15	%	R	
158	uint16	L1 V H16	%	R	
160	uint16	L1 V H17	%	R	
162	uint16	L1 V H18	%	R	
164	uint16	L1 V H19	%	R	
166	float	L1 THDU	%	R	Total Harmonic Voltage Distortion
340	uint16	L2 V H01	%	R	
342	uint16	L2 V H02	%	R	
344	uint16	L2 V H03	%	R	
346	uint16	L2 V H04	%	R	
348	uint16	L2 V H05	%	R	
350	uint16	L2 V H06	%	R	
352	uint16	L2 V H07	%	R	
354	uint16	L2 V H08	%	R	
356	uint16	L2 V H09	%	R	
358	uint16	L2 V H10	%	R	
360	uint16	L2 V H11	%	R	
362	uint16	L2 V H12	%	R	
364	uint16	L2 V H13	%	R	
366	uint16	L2 V H14	%	R	
368	uint16	L2 V H15	%	R	
370	uint16	L2 V H16	%	R	
372	uint16	L2 V H17	%	R	
374	uint16	L2 V H18	%	R	
376	uint16	L2 V H19	%	R	
378	float	L2 THDU	%	R	Total Harmonic Voltage Distortion
552	uint16	L3 V H01	%	R	

Address	Format	Identifier	Unit	RW	Description
554	uint16	L3 V H02	%	R	
556	uint16	L3 V H03	%	R	
558	uint16	L3 V H04	%	R	
560	uint16	L3 V H05	%	R	
562	uint16	L3 V H06	%	R	
564	uint16	L3 V H07	%	R	
566	uint16	L3 V H08	%	R	
568	uint16	L3 V H09	%	R	
570	uint16	L3 V H10	%	R	
572	uint16	L3 V H11	%	R	
574	uint16	L3 V H12	%	R	
576	uint16	L3 V H13	%	R	
578	uint16	L3 V H14	%	R	
580	uint16	L3 V H15	%	R	
582	uint16	L3 V H16	%	R	
584	uint16	L3 V H17	%	R	
586	uint16	L3 V H18	%	R	
588	uint16	L3 V H19	%	R	
590	float	L3 THDU	%	R	Total Harmonic Voltage Distortion
764	uint16	L1 I H01	%	R	
766	uint16	L1 I H02	%	R	
768	uint16	L1 I H03	%	R	
770	uint16	L1 I H04	%	R	
772	uint16	L1 I H05	%	R	
774	uint16	L1 I H06	%	R	
776	uint16	L1 I H07	%	R	
778	uint16	L1 I H08	%	R	
780	uint16	L1 I H09	%	R	
782	uint16	L1 I H10	%	R	
784	uint16	L1 I H11	%	R	
786	uint16	L1 I H12	%	R	
788	uint16	L1 I H13	%	R	

Address	Format	Identifier	Unit	RW	Description
790	uint16	L1 I H14	%	R	
792	uint16	L1 I H15	%	R	
794	uint16	L1 I H16	%	R	
796	uint16	L1 I H17	%	R	
798	uint16	L1 I H18	%	R	
800	uint16	L1 I H19	%	R	
802	float	L1 THDI	%	R	Total Harmonic Current Distortion
806	float	L1 overcurrent factor	I_{eff}/I_{fu}	R	
976	uint16	L2 I H01	%	R	
978	uint16	L2 I H02	%	R	
980	uint16	L2 I H03	%	R	
982	uint16	L2 I H04	%	R	
984	uint16	L2 I H05	%	R	
986	uint16	L2 I H06	%	R	
988	uint16	L2 I H07	%	R	
990	uint16	L2 I H08	%	R	
992	uint16	L2 I H09	%	R	
994	uint16	L2 I H10	%	R	
996	uint16	L2 I H11	%	R	
998	uint16	L2 I H12	%	R	
1000	uint16	L2 I H13	%	R	
1002	uint16	L2 I H14	%	R	
1004	uint16	L2 I H15	%	R	
1006	uint16	L2 I H16	%	R	
1008	uint16	L2 I H17	%	R	
1010	uint16	L2 I H18	%	R	
1012	uint16	L2 I H19	%	R	
1014	float	L2 THDI	%	R	Total Harmonic Current Distortion
1018	float	L2 overcurrent factor	I_{eff}/I_{fu}	R	
1188	uint16	L3 I H01	%	R	
1190	uint16	L3 I H02	%	R	
1192	uint16	L3 I H03	%	R	

Address	Format	Identifier	Unit	RW	Description
1194	uint16	L3 I H04	%	R	
1196	uint16	L3 I H05	%	R	
1198	uint16	L3 I H06	%	R	
1200	uint16	L3 I H07	%	R	
1202	uint16	L3 I H08	%	R	
1204	uint16	L3 I H09	%	R	
1206	uint16	L3 I H10	%	R	
1208	uint16	L3 I H11	%	R	
1210	uint16	L3 I H12	%	R	
1212	uint16	L3 I H13	%	R	
1214	uint16	L3 I H14	%	R	
1216	uint16	L3 I H15	%	R	
1218	uint16	L3 I H16	%	R	
1220	uint16	L3 I H17	%	R	
1222	uint16	L3 I H18	%	R	
1224	uint16	L3 I H19	%	R	
1226	float	L3 THDI	%	R	Total Harmonic Current Distortion
1230	float	L3 overcurrent factor	I_{eff}/I_{fu}	R	
1344	float	total cos phi	cos(phi)	R	($0 \leq \cos \phi < 1$) system is inductive ($1 < \cos \phi \leq 2$) system is capacitive
1348	float	total voltage	V	R	
1352	float	total current	A	R	
1356	float	total active power	kW	R	
1360	float	total reactive power	kvar	R	
1364	float	total apparent power	kVA	R	
1392	float	total C-Stages power	kvar	R	
1396	float	available C-Stages Power	kvar	R	
1400	float	missing reactive power (Based on control setPoint)	kvar	R	
1404	float	C-Stages power load rate	%	R	
1408	float	calculated cos phi setpoint	cos(phi)	R	($0 \leq \cos \phi < 1$) system is inductive ($1 < \cos \phi \leq 2$) system is capacitive
1424	uint32	voltage sag count L1	events	R	

Address	Format	Identifier	Unit	RW	Description
1428	uint32	voltage sag count L2	events	R	
1432	uint32	voltage sag count L3	events	R	
1536	uint16	relay status 01		R	0: Turned off 1: Turned on 3: Not connected 5: Disabled 6: Zero stage 7: Fixed stage
1538	uint16	relay status 02		R	
1540	uint16	relay status 03		R	
1542	uint16	relay status 04		R	
1544	uint16	relay status 05		R	
1546	uint16	relay status 06		R	
1548	uint16	relay status 07		R	
1550	uint16	relay status 08		R	
1552	uint16	relay status 09		R	
1554	uint16	relay status 10		R	
1556	uint16	relay status 11		R	
1558	uint16	relay status 12		R	
1600	uint32	switch count relay 01	operations	R	
1604	uint32	switch count relay 02	operations	R	
1608	uint32	switch count relay 03	operations	R	
1612	uint32	switch count relay 04	operations	R	
1616	uint32	switch count relay 05	operations	R	
1620	uint32	switch count relay 06	operations	R	
1624	uint32	switch count relay 07	operations	R	
1628	uint32	switch count relay 08	operations	R	
1632	uint32	switch count relay 09	operations	R	
1636	uint32	switch count relay 10	operations	R	
1640	uint32	switch count relay 11	operations	R	
1644	uint32	switch count relay 12	operations	R	
1792	float	reactive power relay bank 01	kvar	R	

Address	Format	Identifier	Unit	RW	Description
1796	float	reactive power relay bank 02	kvar	R	
1800	float	reactive power relay bank 03	kvar	R	
1804	float	reactive power relay bank 04	kvar	R	
1808	float	reactive power relay bank 05	kvar	R	
1812	float	reactive power relay bank 06	kvar	R	
1816	float	reactive power relay bank 07	kvar	R	
1820	float	reactive power relay bank 08	kvar	R	
1824	float	reactive power relay bank 09	kvar	R	
1828	float	reactive power relay bank 10	kvar	R	
1832	float	reactive power relay bank 11	kvar	R	
1836	float	reactive power relay bank 12	kvar	R	
1856	uint16	reactive power left percent relay bank 01	%	R	Percent of left stage power since stage identification. This value is used for zero stage determination.
1858	uint16	reactive power left percent relay bank 02	%	R	
1860	uint16	reactive power left percent relay bank 03	%	R	
1862	uint16	reactive power left percent relay bank 04	%	R	
1864	uint16	reactive power left percent relay bank 05	%	R	
1866	uint16	reactive power left percent relay bank 06	%	R	
1868	uint16	reactive power left percent relay bank 07	%	R	
1870	uint16	reactive power left percent relay bank 08	%	R	
1872	uint16	reactive power left percent relay bank 09	%	R	
1874	uint16	reactive power left percent relay bank 10	%	R	
1876	uint16	reactive power left percent relay bank 11	%	R	
1878	uint16	reactive power left percent relay bank 12	%	R	
2048	uint16	active control preset (1-5)		RW	
2050	uint16	Modbus unlock password		RW	
2052	uint16	Modbus lock		RW	

Address	Format	Identifier	Unit	RW	Description
2054	uint16	Modbus lock status		R	If value is zero, write access is unlocked. Any value different from zero indicates a locked Modbus write access.
2056	uint16	save changes EEPROM		RW	
2058	uint16	EEPROM busy		R	A non-zero value indicates a still running write process. It is recommended to wait for the write process to complete before reading/writing any register.
2304	uint32	alarm register		R	Bit 0: Undervoltage (any phase) Bit 1: Undercurrent (any phase) Bit 2: THDI (controlled phase) Bit 5: cos(phi) (controlled phase) Bit 6: Zero stage (any stage) Bit 7: Stage counter (any stage) Bit 8: Impossible Connection Bit 9: Impossible Stage detaction Bit 10: Voltage harmonic Bit 11: Current harmonic Bit 12: Overcurrent Bit 13: Voltage Sag Bit 14: PT100 temperature Bit 15: NTC1 temperature Bit 16: NTC2 temperature Bit 17: Input1 Bit 18: Input2 Bit 19: Input3 Bit 20: Input4 Bit 21: Input5

Address	Format	Identifier	Unit	RW	Description
2308	uint32	alarm details zero stage		R	Bit 0: Zerostage 1 detected Bit 1: Zerostage 2 detected ... Bit 11 : Zerostage 12 detected
2312	uint32	alarm details stagecounter		R	Bit 0: Stagecounter 1 reached Bit 1: Stagecounter 2 reached ... Bit 11 : Stagecounter 12 reached
2316	uint32	alarm details harmonic current		R	Bit 0: harmonic 1 detected Bit 1: harmonic 2 detected ... Bit 18 : harmonic 19 detected
2320	uint32	alarm details harmonic voltage		R	Bit 0: harmonic 1 detected Bit 1: harmonic 2 detected ... Bit 18 : harmonic 19 detected

Address	Format	Identifier	Unit	RW	Description
2324	uint32	alarm details measured Data		R	Bit 0: Undervoltage (L1) Bit 1: Undercurrent (L1) Bit 2: THDI (L1) Bit 3: Underfrequency detected (L1) Bit 4: Overfrequency detected (L1) Bit 5: Overcurrent detected (L1) Bit 10: Undervoltage (L2) Bit 11: Undercurrent (L2) Bit 12: THDI (L2) Bit 13: Underfrequency detected (L2) Bit 14: Overfrequency detected (L2) Bit 15: Overcurrent detected (L2) Bit 20: Undervoltage (L3) Bit 21: Undercurrent (L3) Bit 22: THDI (L3) Bit 23: Underfrequency detected (L3) Bit 24: Overfrequency detected (L3) Bit 25: Overcurrent detected (L3)
2384	uint16	Software Version Major		R	
2386	uint16	Software Version Minor		R	
2388	uint32	Software Version Revision		R	First 32 Bit of git commit hash
2392	uint32	Hardware Serial Number		R	
2396	uint32	Hardware Relay Voltage		R	
2400	uint32	Hardware Date Code		R	
2404	uint16	Hardware Phase Count		R	
2406	uint16	Hardware Stage Count		R	
64000	uint16	Manufacturer		R	
64002	uint16	Type		R	
64004	uint32	Version		R	First 32 Bit of git commit hash
64008	uint32	Serial No		R	
64012	uint32	Feature		R	

Address	Format	Identifier	Unit	RW	Description
65500	float	Hardbeat		RW	Range: $0 \leq x \leq 65535$ Resolution: 1 Multiplier: 1
2560	float	Profile 1 cos phi target	cos(phi)	RW	Range: $0.5 \leq x \leq 1.5$ Resolution: 0.001 Multiplier: 1
2564	float	Profile 1 Limitation T		RW	
2568	float	Profile 1 Parallel Shift PS		RW	Range: $-2 \leq x \leq 4$ Resolution: 0.5 Multiplier: 1
2572	float	Profile 1 Switching delay time	s	RW	Range: $5 \leq x \leq 500$ Resolution: 1 Multiplier: 1
2576	uint16	Profile 1 controlled Phase		RW	
2578	float	Profile 2 cos phi target	cos(phi)	RW	Range: $0.5 \leq x \leq 1.5$ Resolution: 0.001 Multiplier: 1
2582	float	Profile 2 Limitation T		RW	
2586	float	Profile 3 Parallel Shift		RW	Range: $-2 \leq x \leq 4$ Resolution: 0.5 Multiplier: 1
2590	float	Profile 4 Switching delay time	s	RW	Range: $5 \leq x \leq 500$ Resolution: 1 Multiplier: 1
2594	uint16	Profile 5 controlled Phase		RW	
2596	float	Profile 3 cos phi target		RW	Range: $0.5 \leq x \leq 1.5$ Resolution: 0.001 Multiplier: 1
2600	float	Profile 3 Limitation T		RW	
2604	float	Profile 3 Parallel Shift		RW	Range: $-2 \leq x \leq 4$ Resolution: 0.5 Multiplier: 1

Address	Format	Identifier	Unit	RW	Description
2608	float	Profile 3 Switching delay time	s	RW	Range: $5 \leq x \leq 500$ Resolution: 1 Multiplier: 1
2612	uint16	Profile 3 controlled Phase		RW	
2614	float	Profile 4 cos phi target	cos(phi)	RW	Range: $0.5 \leq x \leq 1.5$ Resolution: 0.001 Multiplier: 1
2618	float	Profile 4 Limitation T		RW	
2622	float	Profile 4 Parallel Shift		RW	Range: $-2 \leq x \leq 4$ Resolution: 0.5 Multiplier: 1
2626	float	Profile 4 Switching delay time	s	RW	Range: $5 \leq x \leq 500$ Resolution: 1 Multiplier: 1
2630	uint16	Profile 4 controlled Phase		RW	
2632	float	Profile 5 cos phi target	cos(phi)	RW	Range: $0.5 \leq x \leq 1.5$ Resolution: 0.001 Multiplier: 1
2636	float	Profile 5 Limitation T		RW	
2640	float	Profile 5 Parallel Shift		RW	Range: $-2 \leq x \leq 4$ Resolution: 0.5 Multiplier: 1
2644	float	Profile 5 Switching delay time	s	RW	Range: $5 \leq x \leq 500$ Resolution: 1 Multiplier: 1
2648	uint16	Profile 5 controlled Phase		RW	
2650	float	Profile active cos phi target	cos(phi)	RW	Range: $0.5 \leq x \leq 1.5$ Resolution: 0.001 Multiplier: 1
2654	float	Profile active Limitation T		RW	
2658	float	Profile active Parallel Shift		RW	Range: $-2 \leq x \leq 4$ Resolution: 0.5 Multiplier: 1

Address	Format	Identifier	Unit	RW	Description
2662	float	Profile active Switching delay time	s	RW	Range: $5 \leq x \leq 500$ Resolution: 1 Multiplier: 1
2666	uint16	Profile active controlled Phase		RW	
3840	float	THDI Trip Value	%	RW	Range: $5 \leq x \leq 500$ Resolution: 1 Multiplier: 1
3848	uint16	Uharmonic trip value 02	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3850	uint16	Uharmonic trip value 03	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3852	uint16	Uharmonic trip value 04	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3854	uint16	Uharmonic trip value 05	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3856	uint16	Uharmonic trip value 06	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3858	uint16	Uharmonic trip value 07	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3860	uint16	Uharmonic trip value 08	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3862	uint16	Uharmonic trip value 09	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100

Address	Format	Identifier	Unit	RW	Description
3864	uint16	Uharmonic trip value 10	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3866	uint16	Uharmonic trip value 11	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3868	uint16	Uharmonic trip value 12	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3870	uint16	Uharmonic trip value 13	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3872	uint16	Uharmonic trip value 14	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3874	uint16	Uharmonic trip value 15	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3876	uint16	Uharmonic trip value 16	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3878	uint16	Uharmonic trip value 17	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3880	uint16	Uharmonic trip value 18	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3882	uint16	Uharmonic trip value 19	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3952	uint16	Iharmonic trip value 02	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100

Address	Format	Identifier	Unit	RW	Description
3954	uint16	Iharmonic trip value 03	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3956	uint16	Iharmonic trip value 04	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3958	uint16	Iharmonic trip value 05	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3960	uint16	Iharmonic trip value 06	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3962	uint16	Iharmonic trip value 07	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3964	uint16	Iharmonic trip value 08	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3966	uint16	Iharmonic trip value 09	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3968	uint16	Iharmonic trip value 10	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3970	uint16	Iharmonic trip value 11	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3972	uint16	Iharmonic trip value 12	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3974	uint16	Iharmonic trip value 13	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100

Address	Format	Identifier	Unit	RW	Description
3976	uint16	Iharmonic trip value 14	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3978	uint16	Iharmonic trip value 15	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3980	uint16	Iharmonic trip value 16	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3982	uint16	Iharmonic trip value 17	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3984	uint16	Iharmonic trip value 18	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3986	uint16	Iharmonic trip value 19	%	RW	Range: $0 \leq x \leq 10000$ Resolution: 1 Multiplier: 100
3988	uint16	overcurrent factor trip value	I_{eff}/I_{fu}	RW	Range: $100 \leq x \leq 200$ Resolution: 1 Multiplier: 100
3990	uint16	blackout voltage percent of nominal voltage	%	RW	Range: $50 \leq x \leq 93$ Resolution: 1 Multiplier: 1
3992	uint16	voltage blackout no of quarter periods		RW	Range: $1 \leq x \leq 4$ Resolution: 1 Multiplier: 1
3994	uint16	voltage sag phase		RW	
4096	uint16	automatic c/k identification		R	
4098	uint16	c/k value	mA	R	
4100	uint16	switching sequence value relay 01		R	
4102	uint16	switching sequence value relay 02		R	
4104	uint16	switching sequence value relay 03		R	

Address	Format	Identifier	Unit	RW	Description
4106	uint16	switching sequence value relay 04		R	
4108	uint16	switching sequence value relay 05		R	
4110	uint16	switching sequence value relay 06		R	
4112	uint16	switching sequence value relay 07		R	
4114	uint16	switching sequence value relay 08		R	
4116	uint16	switching sequence value relay 09		R	
4118	uint16	switching sequence value relay 10		R	
4120	uint16	switching sequence value relay 11		R	
4122	uint16	switching sequence value relay 12		R	
4192	uint16	determination of fixed stages	fix Stage	R	0: Fix stage 1: Stage 1 is a fixed stage 2: Stage 1 and stage 2 are fixed stages 3: Stages 1, 2 and 3 are fixed stages
4194	uint16	number of contactors used	Stages	R	
4196	uint16	automatic identification of voltage and current source		R	
4198	uint16	enter or read mode of connection		R	
4200	uint16	discharge time	s	R	
4202	uint16	setting cyclic/non-cyclic switching rotation		R	
4204	uint16	threshold for number of switching alarm	operations	R	
4206	uint16	current transformer ratio		RW	Range: $1 \leq x \leq 6000$ Resolution: 1 Multiplier: 1
4212	uint16	voltage transformer ratio		RW	Range: $1 \leq x \leq 300$ Resolution: 1 Multiplier: 1
4216	uint16	invert Alarmrelay		R	
4218	uint16	cos Phi controlband violation		R	
4220	uint16	language		R	
4222	uint16	choke factor	%	R	
4224	uint16	zero Stage detection limit	%	R	
4226	uint16	nominal voltage	V	R	

Address	Format	Identifier	Unit	RW	Description
8192	uint16	Temp-IO config: PT Sensor active/inactive		R	
8194	uint16	Temp-IO config: NTC 1 Sensor active/inactive		R	
8196	uint16	Temp-IO config: NTC 2 Sensor active/inactive		R	
8198	uint16	Temp-IO config: I/O configuration		R	0: Input 1: Output 2: Unconfigured Bit 0-1: I/O 1 Bit 2-3: I/O 2 Bit 4-5: I/O 3 Bit 6-7: I/O 4 Bit 8-9: I/O 5 Bit 10-12: Profile switching pin (0 means deactivated)
8200	int16	Temp-IO config: temperature unit		R	0: °C 1: °F 2: Kelvin
8202	int16	Temp-IO config: PT Sensor alarm threshold	K/°C/ °F	R	
8204	int16	Temp-IO config: NTC 1 Sensor alarm threshold	K/°C/ °F	R	
8206	int16	Temp-IO config: NTC 2 Sensor alarm threshold	K/°C/ °F	R	
12288	uint16	Temp-IO I/O IO Status		R	0: OFF 1: ON Bit 0: IO1 Bit 1: IO2 Bit 2: IO3 Bit 3: IO4 Bit 4: IO5
12290	uint16	Temp-IO PT Sensor Detection		R	0: PT 1000 1: PT 100 2: No Sensor detected

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Address	Format	Identifier	Unit	RW	Description
12292	int16	Temp-IO temperature PT	°C	R	Special values: 32765: inactive 32766: no Sensor 32767: out of range Multiplier: 0.1
12294	int16	Temp-IO temperature PT	°F	R	
12296	int16	Temp-IO temperature PT	K	R	
12298	int16	Temp-IO temperature NTC 1	°C	R	
12300	int16	Temp-IO temperature NTC 1	°F	R	
12302	int16	Temp-IO temperature NTC 1	K	R	
12304	int16	Temp-IO temperature NTC 2	°C	R	
12306	int16	Temp-IO temperature NTC 2	°F	R	
12308	int16	Temp-IO temperature NTC 2	K	R	

Modbus Specification