

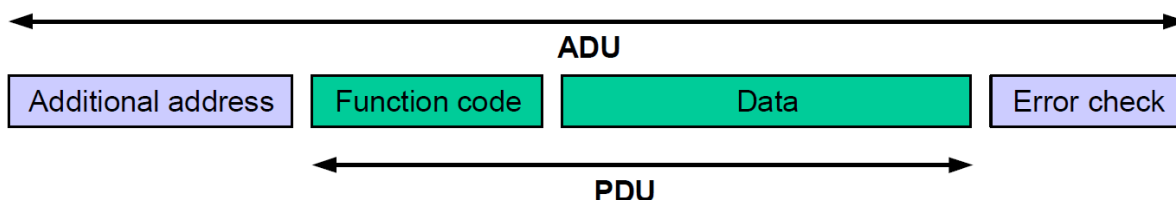
Mapa MODBUS registrů

Zařízení: **ATS-C120, ATS-mini** (stejný firmware)
Verze: **3.25.3.12** (verze firmware)
Datum: **15.03.2025** (verze dokumentu)

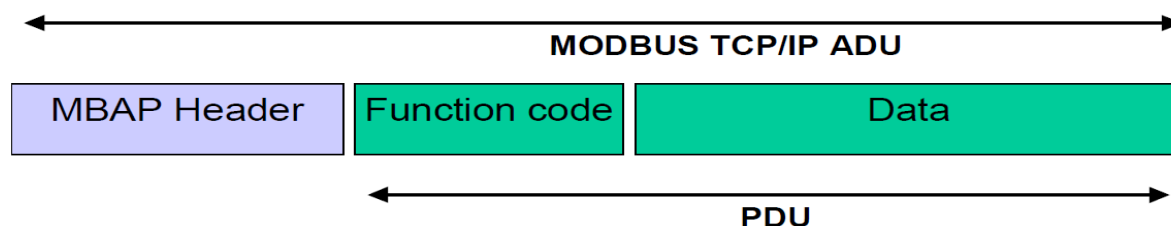
Úvodní informace

MODBUS RTU

Upozornění: **Pozor! Přestože ATS-C120 je vybaveno rozhraním RS485, není MODBUS RTU implementován!**



MODBUS TCP Pro rozhraní **ETHERNET** je použit protokol dle standardu MODBUS TCP (port 502):



Adresace: Adresa zařízení (slave id) uvedená v hlavičce MBAP se ignoruje

Počet připojení: **Modbus port má vyhrazeny pouze dva sockety, tzn. lze vytvořit max. 2 souběžné připojení**

Pozor, modbus je třeba povolit přes program EDS, záložka TELNET, menu 1, nastavit port MODBUS = 502 nebo přes web manager (musíte mít aktuální verze firmware, CGI a web manageru ATS-C120 ze dne 12.3.2025 nebo novější)

Aktualizace firmware, CGI, Web

Vždy používejte aktuální verzi firmware: program MaxComm 10 (Domů / Připojené / FW)

A také tzv. CGI a web manager: program EDS (Menu... / Aktualizovat zařízení)

Datové typy, implementace

Obecně: Běžné 16-bitové registry jsou uloženy dle specifikace MODBUS, tzn. **BIG ENDIAN** (MSB first). Větší registry (např. UINT32) a struktury jsou uloženy jako **LITTLE ENDIAN** (LSB first)!

string posloupnost jednobytových znaků je uložena přirozeně sekvenčně, příklad pro text: "ABCDE". String zakončen nulou '\0'.
[Adresa] **0x4142**
[Adresa+1] **0x4344**
[Adresa+2] **0x4500**

uint16 rozsah: **0 až 65536**, dle specifikace MODBUS (MSB), příklad pro číslo: **0x1234** (4660)
[Adresa] **0x1234**

int16 rozsah: **-32768 až 32767**, dle specifikace MODBUS (MSB), příklad pro číslo: **0xEDCC** (-4660)
[Adresa] **0xEDCC**

uint32 rozsah: **0 až 4294967295**, uloženo jako **2x uint16**: LSB, MSB, příklad pro číslo: **0x12345678** (305419896)
[Adresa] **0x5678**
[Adresa+1] **0x1234**

int32 rozsah: **-2147483648 až 2147483647**, uloženo jako **2x uint16**: LSB, MSB, příklad pro číslo: **0x12345678** (305419896)

[Adresa] **0x5678**
[Adresa+1] **0x1234**

float IEEE-754, uloženo jako **uint32**: LSB, MSB, příklad pro číslo: **2.28444433212** (0x40123456)

[Adresa] **0x3456**
[Adresa+1] **0x4012**

viz: <https://www.h-schmidt.net/FloatConverter/IEEE754.html>

verze číslo verze je uloženo jako **UINT32**, např. verze **3.23.9.12** je kódována jako číslo **3230912**
- první číslo je hlavní verze (3), pak vždy dvě cifry: rok (23), měsíc (09) a den (12)

[Adresa] **0x4CC0** LSB
[Adresa+1] **0x0031** MSB

Adresace pro Simatic (program WinCC)

Adresování MODBUS registrů v systému Simatic je specifické - použijte **prefix 4x40... plus 1**

Příklad: Adresa Simatic adresa
1536 4x401537

CPU type: Concept, ProWORX, Compact, Quantum, Momentum

Communication driver: Modicon modbus TCP/IP

Systémové informace

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x0	0	10	Vendor	R	3, 4	string		"PK-ELSYS"
0x5	5	22	Product (text)	R	3, 4	string		"ATS-C120-LM"
0x10	16	4	Version FirmWare	R	3, 4	verze		V.YY.MM.DD
0x12	18	4	Version Proto (compatibility)	R	3, 4	verze		V.YY.MM.DD
0x14	20	2	Product (code)	R	3, 4	uint16		
0x15	21	4	Serial Number	R	3, 4	uint32		
0x17	23	2	Max. Msr. Count (licensed)	R	3, 4	uint16		6, 14, 120
0x18	24	2	Max. Outputs Count	R	3, 4	uint16		32

Parametry / konstanty měření pro přepočítání impulzů na energii

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x100	256	4	PPU1	R	3, 4	float		default = 1.000
0x102	258	4	PPU2	R	3, 4	float		
0x104	260	4	PPU3	R	3, 4	float		
0x106	262	4	PPU4	R	3, 4	float		
0x108	264	4	PPU5	R	3, 4	float		
0x10A	266	4	PPU6	R	3, 4	float		
0x10C	268	4	PPU7	R	3, 4	float		
0x10E	270	4	PPU8	R	3, 4	float		
0x110	272	4	PPU9	R	3, 4	float		
0x112	274	4	PPU10	R	3, 4	float		
0x114	276	4	PPU11	R	3, 4	float		
0x116	278	4	PPU12	R	3, 4	float		
0x118	280	4	PPU13	R	3, 4	float		
0x11A	282	4	PPU14	R	3, 4	float		
0x11C	284	4	PPU15	R	3, 4	float		
0x11E	286	4	PPU16	R	3, 4	float		
0x120	288	4	PPU17	R	3, 4	float		
0x122	290	4	PPU18	R	3, 4	float		
0x124	292	4	PPU19	R	3, 4	float		
0x126	294	4	PPU20	R	3, 4	float		
0x128	296	4	PPU21	R	3, 4	float		
0x12A	298	4	PPU22	R	3, 4	float		
0x12C	300	4	PPU23	R	3, 4	float		
0x12E	302	4	PPU24	R	3, 4	float		
0x130	304	4	PPU25	R	3, 4	float		
0x132	306	4	PPU26	R	3, 4	float		
0x134	308	4	PPU27	R	3, 4	float		
0x136	310	4	PPU28	R	3, 4	float		
0x138	312	4	PPU29	R	3, 4	float		
0x13A	314	4	PPU30	R	3, 4	float		
0x13C	316	4	PPU31	R	3, 4	float		
0x13E	318	4	PPU32	R	3, 4	float		
0x140	320	4	PPU33	R	3, 4	float		
0x142	322	4	PPU34	R	3, 4	float		
0x144	324	4	PPU35	R	3, 4	float		

0x146	326	4	PPU36	R	3, 4	float
0x148	328	4	PPU37	R	3, 4	float
0x14A	330	4	PPU38	R	3, 4	float
0x14C	332	4	PPU39	R	3, 4	float
0x14E	334	4	PPU40	R	3, 4	float
0x150	336	4	PPU41	R	3, 4	float
0x152	338	4	PPU42	R	3, 4	float
0x154	340	4	PPU43	R	3, 4	float
0x156	342	4	PPU44	R	3, 4	float
0x158	344	4	PPU45	R	3, 4	float
0x15A	346	4	PPU46	R	3, 4	float
0x15C	348	4	PPU47	R	3, 4	float
0x15E	350	4	PPU48	R	3, 4	float
0x160	352	4	PPU49	R	3, 4	float
0x162	354	4	PPU50	R	3, 4	float
0x164	356	4	PPU51	R	3, 4	float
0x166	358	4	PPU52	R	3, 4	float
0x168	360	4	PPU53	R	3, 4	float
0x16A	362	4	PPU54	R	3, 4	float
0x16C	364	4	PPU55	R	3, 4	float
0x16E	366	4	PPU56	R	3, 4	float
0x170	368	4	PPU57	R	3, 4	float
0x172	370	4	PPU58	R	3, 4	float
0x174	372	4	PPU59	R	3, 4	float
0x176	374	4	PPU60	R	3, 4	float
0x178	376	4	PPU61	R	3, 4	float
0x17A	378	4	PPU62	R	3, 4	float
0x17C	380	4	PPU63	R	3, 4	float
0x17E	382	4	PPU64	R	3, 4	float
0x180	384	4	PPU65	R	3, 4	float
0x182	386	4	PPU66	R	3, 4	float
0x184	388	4	PPU67	R	3, 4	float
0x186	390	4	PPU68	R	3, 4	float
0x188	392	4	PPU69	R	3, 4	float
0x18A	394	4	PPU70	R	3, 4	float
0x18C	396	4	PPU71	R	3, 4	float
0x18E	398	4	PPU72	R	3, 4	float
0x190	400	4	PPU73	R	3, 4	float
0x192	402	4	PPU74	R	3, 4	float
0x194	404	4	PPU75	R	3, 4	float
0x196	406	4	PPU76	R	3, 4	float
0x198	408	4	PPU77	R	3, 4	float
0x19A	410	4	PPU78	R	3, 4	float
0x19C	412	4	PPU79	R	3, 4	float
0x19E	414	4	PPU80	R	3, 4	float
0x1A0	416	4	PPU81	R	3, 4	float
0x1A2	418	4	PPU82	R	3, 4	float
0x1A4	420	4	PPU83	R	3, 4	float
0x1A6	422	4	PPU84	R	3, 4	float
0x1A8	424	4	PPU85	R	3, 4	float
0x1AA	426	4	PPU86	R	3, 4	float
0x1AC	428	4	PPU87	R	3, 4	float
0x1AE	430	4	PPU88	R	3, 4	float
0x1B0	432	4	PPU89	R	3, 4	float
0x1B2	434	4	PPU90	R	3, 4	float
0x1B4	436	4	PPU91	R	3, 4	float
0x1B6	438	4	PPU92	R	3, 4	float
0x1B8	440	4	PPU93	R	3, 4	float
0x1BA	442	4	PPU94	R	3, 4	float
0x1BC	444	4	PPU95	R	3, 4	float
0x1BE	446	4	PPU96	R	3, 4	float
0x1C0	448	4	PPU97	R	3, 4	float
0x1C2	450	4	PPU98	R	3, 4	float
0x1C4	452	4	PPU99	R	3, 4	float
0x1C6	454	4	PPU100	R	3, 4	float
0x1C8	456	4	PPU101	R	3, 4	float
0x1CA	458	4	PPU102	R	3, 4	float
0x1CC	460	4	PPU103	R	3, 4	float
0x1CE	462	4	PPU104	R	3, 4	float
0x1D0	464	4	PPU105	R	3, 4	float
0x1D2	466	4	PPU106	R	3, 4	float
0x1D4	468	4	PPU107	R	3, 4	float
0x1D6	470	4	PPU108	R	3, 4	float
0x1D8	472	4	PPU109	R	3, 4	float

0x1DA	474	4	PPU110	R	3, 4	float		
0x1DC	476	4	PPU111	R	3, 4	float		
0x1DE	478	4	PPU112	R	3, 4	float		
0x1E0	480	4	PPU113	R	3, 4	float		
0x1E2	482	4	PPU114	R	3, 4	float		
0x1E4	484	4	PPU115	R	3, 4	float		
0x1E6	486	4	PPU116	R	3, 4	float		
0x1E8	488	4	PPU117	R	3, 4	float		
0x1EA	490	4	PPU118	R	3, 4	float		
0x1EC	492	4	PPU119	R	3, 4	float		
0x1EE	494	4	PPU120	R	3, 4	float		

Parametry / regulace

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x200	512	2	Synchronize interval	R	3, 4	uint16		0=15min, 1=1h, 2=24h
0x201	513	2	Sync24H/start	R	3, 4	uint16	h	start hour, 24h sync only
0x202	514	4	Reg. Max. T1	R	3, 4	uint32		
0x204	516	4	Reg. Max. T2	R	3, 4	uint32		
0x206	518	2	Reg. Step	R	3, 4	uint16	s	
0x207	519	2	Line ON	R	3, 4	uint16	%	0 - 99
0x208	520	2	Line OFF	R	3, 4	uint16	%	0 - 99
0x209	521	2	Idle begin	R	3, 4	uint16	%	0 - 99
0x20A	522	2	Idle end	R	3, 4	uint16	%	0 - 99
0x20B	523	2	Limit ON	R	3, 4	uint16	%	0 - 99
0x20C	524	2	Prediction from	R	3, 4	uint16	%	0 - 99
0x20D	525	2	Outputs inverted	R	3, 4	uint16		0=NORMAL, 1=INVERTED
0x20E	526	2	Power limit	R	3, 4	uint16		04.03.2025

Parametry / režim provozu výstupního relé

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x300	768	2	Output mode 1	R	3, 4	uint16		0=DISABLED, 1=NORMAL, 2-9=SIGNAL MODE
0x301	769	2	Output mode 2	R	3, 4	uint16		
0x302	770	2	Output mode 3	R	3, 4	uint16		
0x303	771	2	Output mode 4	R	3, 4	uint16		
0x304	772	2	Output mode 5	R	3, 4	uint16		
0x305	773	2	Output mode 6	R	3, 4	uint16		
0x306	774	2	Output mode 7	R	3, 4	uint16		
0x307	775	2	Output mode 8	R	3, 4	uint16		
0x308	776	2	Output mode 9	R	3, 4	uint16		
0x309	777	2	Output mode 10	R	3, 4	uint16		
0x30A	778	2	Output mode 11	R	3, 4	uint16		
0x30B	779	2	Output mode 12	R	3, 4	uint16		
0x30C	780	2	Output mode 13	R	3, 4	uint16		
0x30D	781	2	Output mode 14	R	3, 4	uint16		
0x30E	782	2	Output mode 15	R	3, 4	uint16		
0x30F	783	2	Output mode 16	R	3, 4	uint16		
0x310	784	2	Output mode 17	R	3, 4	uint16		
0x311	785	2	Output mode 18	R	3, 4	uint16		
0x312	786	2	Output mode 19	R	3, 4	uint16		
0x313	787	2	Output mode 20	R	3, 4	uint16		
0x314	788	2	Output mode 21	R	3, 4	uint16		
0x315	789	2	Output mode 22	R	3, 4	uint16		
0x316	790	2	Output mode 23	R	3, 4	uint16		
0x317	791	2	Output mode 24	R	3, 4	uint16		
0x318	792	2	Output mode 25	R	3, 4	uint16		
0x319	793	2	Output mode 26	R	3, 4	uint16		
0x31A	794	2	Output mode 27	R	3, 4	uint16		
0x31B	795	2	Output mode 28	R	3, 4	uint16		
0x31C	796	2	Output mode 29	R	3, 4	uint16		
0x31D	797	2	Output mode 30	R	3, 4	uint16		
0x31E	798	2	Output mode 31	R	3, 4	uint16		
0x31F	799	2	Output mode 32	R	3, 4	uint16		

Parametry / priority blokování výstupních relé

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x320	800	2	Output priority 1	R	3, 4	uint16		0 - 32

0x321	801	2	Output priority 2	R	3, 4	uint16
0x322	802	2	Output priority 3	R	3, 4	uint16
0x323	803	2	Output priority 4	R	3, 4	uint16
0x324	804	2	Output priority 5	R	3, 4	uint16
0x325	805	2	Output priority 6	R	3, 4	uint16
0x326	806	2	Output priority 7	R	3, 4	uint16
0x327	807	2	Output priority 8	R	3, 4	uint16
0x328	808	2	Output priority 9	R	3, 4	uint16
0x329	809	2	Output priority 10	R	3, 4	uint16
0x32A	810	2	Output priority 11	R	3, 4	uint16
0x32B	811	2	Output priority 12	R	3, 4	uint16
0x32C	812	2	Output priority 13	R	3, 4	uint16
0x32D	813	2	Output priority 14	R	3, 4	uint16
0x32E	814	2	Output priority 15	R	3, 4	uint16
0x32F	815	2	Output priority 16	R	3, 4	uint16
0x330	816	2	Output priority 17	R	3, 4	uint16
0x331	817	2	Output priority 18	R	3, 4	uint16
0x332	818	2	Output priority 19	R	3, 4	uint16
0x333	819	2	Output priority 20	R	3, 4	uint16
0x334	820	2	Output priority 21	R	3, 4	uint16
0x335	821	2	Output priority 22	R	3, 4	uint16
0x336	822	2	Output priority 23	R	3, 4	uint16
0x337	823	2	Output priority 24	R	3, 4	uint16
0x338	824	2	Output priority 25	R	3, 4	uint16
0x339	825	2	Output priority 26	R	3, 4	uint16
0x33A	826	2	Output priority 27	R	3, 4	uint16
0x33B	827	2	Output priority 28	R	3, 4	uint16
0x33C	828	2	Output priority 29	R	3, 4	uint16
0x33D	829	2	Output priority 30	R	3, 4	uint16
0x33E	830	2	Output priority 31	R	3, 4	uint16
0x33F	831	2	Output priority 32	R	3, 4	uint16

Měření / 15 minutové registry (nulují se každých 15 minut)

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x400	1024	4	Energy (15 min) 1	R	3, 4	float		Energy = "Pulse Count" / "PPU"
0x402	1026	4	Energy (15 min) 2	R	3, 4	float		
0x404	1028	4	Energy (15 min) 3	R	3, 4	float		
0x406	1030	4	Energy (15 min) 4	R	3, 4	float		
0x408	1032	4	Energy (15 min) 5	R	3, 4	float		
0x40A	1034	4	Energy (15 min) 6	R	3, 4	float		
0x40C	1036	4	Energy (15 min) 7	R	3, 4	float		
0x40E	1038	4	Energy (15 min) 8	R	3, 4	float		
0x410	1040	4	Energy (15 min) 9	R	3, 4	float		
0x412	1042	4	Energy (15 min) 10	R	3, 4	float		
0x414	1044	4	Energy (15 min) 11	R	3, 4	float		
0x416	1046	4	Energy (15 min) 12	R	3, 4	float		
0x418	1048	4	Energy (15 min) 13	R	3, 4	float		
0x41A	1050	4	Energy (15 min) 14	R	3, 4	float		
0x41C	1052	4	Energy (15 min) 15	R	3, 4	float		
0x41E	1054	4	Energy (15 min) 16	R	3, 4	float		
0x420	1056	4	Energy (15 min) 17	R	3, 4	float		
0x422	1058	4	Energy (15 min) 18	R	3, 4	float		
0x424	1060	4	Energy (15 min) 19	R	3, 4	float		
0x426	1062	4	Energy (15 min) 20	R	3, 4	float		
0x428	1064	4	Energy (15 min) 21	R	3, 4	float		
0x42A	1066	4	Energy (15 min) 22	R	3, 4	float		
0x42C	1068	4	Energy (15 min) 23	R	3, 4	float		
0x42E	1070	4	Energy (15 min) 24	R	3, 4	float		
0x430	1072	4	Energy (15 min) 25	R	3, 4	float		
0x432	1074	4	Energy (15 min) 26	R	3, 4	float		
0x434	1076	4	Energy (15 min) 27	R	3, 4	float		
0x436	1078	4	Energy (15 min) 28	R	3, 4	float		
0x438	1080	4	Energy (15 min) 29	R	3, 4	float		
0x43A	1082	4	Energy (15 min) 30	R	3, 4	float		
0x43C	1084	4	Energy (15 min) 31	R	3, 4	float		
0x43E	1086	4	Energy (15 min) 32	R	3, 4	float		
0x440	1088	4	Energy (15 min) 33	R	3, 4	float		
0x442	1090	4	Energy (15 min) 34	R	3, 4	float		
0x444	1092	4	Energy (15 min) 35	R	3, 4	float		
0x446	1094	4	Energy (15 min) 36	R	3, 4	float		
0x448	1096	4	Energy (15 min) 37	R	3, 4	float		

0x44A	1098	4	Energy (15 min) 38	R	3, 4	float
0x44C	1100	4	Energy (15 min) 39	R	3, 4	float
0x44E	1102	4	Energy (15 min) 40	R	3, 4	float
0x450	1104	4	Energy (15 min) 41	R	3, 4	float
0x452	1106	4	Energy (15 min) 42	R	3, 4	float
0x454	1108	4	Energy (15 min) 43	R	3, 4	float
0x456	1110	4	Energy (15 min) 44	R	3, 4	float
0x458	1112	4	Energy (15 min) 45	R	3, 4	float
0x45A	1114	4	Energy (15 min) 46	R	3, 4	float
0x45C	1116	4	Energy (15 min) 47	R	3, 4	float
0x45E	1118	4	Energy (15 min) 48	R	3, 4	float
0x460	1120	4	Energy (15 min) 49	R	3, 4	float
0x462	1122	4	Energy (15 min) 50	R	3, 4	float
0x464	1124	4	Energy (15 min) 51	R	3, 4	float
0x466	1126	4	Energy (15 min) 52	R	3, 4	float
0x468	1128	4	Energy (15 min) 53	R	3, 4	float
0x46A	1130	4	Energy (15 min) 54	R	3, 4	float
0x46C	1132	4	Energy (15 min) 55	R	3, 4	float
0x46E	1134	4	Energy (15 min) 56	R	3, 4	float
0x470	1136	4	Energy (15 min) 57	R	3, 4	float
0x472	1138	4	Energy (15 min) 58	R	3, 4	float
0x474	1140	4	Energy (15 min) 59	R	3, 4	float
0x476	1142	4	Energy (15 min) 60	R	3, 4	float
0x478	1144	4	Energy (15 min) 61	R	3, 4	float
0x47A	1146	4	Energy (15 min) 62	R	3, 4	float
0x47C	1148	4	Energy (15 min) 63	R	3, 4	float
0x47E	1150	4	Energy (15 min) 64	R	3, 4	float
0x480	1152	4	Energy (15 min) 65	R	3, 4	float
0x482	1154	4	Energy (15 min) 66	R	3, 4	float
0x484	1156	4	Energy (15 min) 67	R	3, 4	float
0x486	1158	4	Energy (15 min) 68	R	3, 4	float
0x488	1160	4	Energy (15 min) 69	R	3, 4	float
0x48A	1162	4	Energy (15 min) 70	R	3, 4	float
0x48C	1164	4	Energy (15 min) 71	R	3, 4	float
0x48E	1166	4	Energy (15 min) 72	R	3, 4	float
0x490	1168	4	Energy (15 min) 73	R	3, 4	float
0x492	1170	4	Energy (15 min) 74	R	3, 4	float
0x494	1172	4	Energy (15 min) 75	R	3, 4	float
0x496	1174	4	Energy (15 min) 76	R	3, 4	float
0x498	1176	4	Energy (15 min) 77	R	3, 4	float
0x49A	1178	4	Energy (15 min) 78	R	3, 4	float
0x49C	1180	4	Energy (15 min) 79	R	3, 4	float
0x49E	1182	4	Energy (15 min) 80	R	3, 4	float
0x4A0	1184	4	Energy (15 min) 81	R	3, 4	float
0x4A2	1186	4	Energy (15 min) 82	R	3, 4	float
0x4A4	1188	4	Energy (15 min) 83	R	3, 4	float
0x4A6	1190	4	Energy (15 min) 84	R	3, 4	float
0x4A8	1192	4	Energy (15 min) 85	R	3, 4	float
0x4AA	1194	4	Energy (15 min) 86	R	3, 4	float
0x4AC	1196	4	Energy (15 min) 87	R	3, 4	float
0x4AE	1198	4	Energy (15 min) 88	R	3, 4	float
0x4B0	1200	4	Energy (15 min) 89	R	3, 4	float
0x4B2	1202	4	Energy (15 min) 90	R	3, 4	float
0x4B4	1204	4	Energy (15 min) 91	R	3, 4	float
0x4B6	1206	4	Energy (15 min) 92	R	3, 4	float
0x4B8	1208	4	Energy (15 min) 93	R	3, 4	float
0x4BA	1210	4	Energy (15 min) 94	R	3, 4	float
0x4BC	1212	4	Energy (15 min) 95	R	3, 4	float
0x4BE	1214	4	Energy (15 min) 96	R	3, 4	float
0x4C0	1216	4	Energy (15 min) 97	R	3, 4	float
0x4C2	1218	4	Energy (15 min) 98	R	3, 4	float
0x4C4	1220	4	Energy (15 min) 99	R	3, 4	float
0x4C6	1222	4	Energy (15 min) 100	R	3, 4	float
0x4C8	1224	4	Energy (15 min) 101	R	3, 4	float
0x4CA	1226	4	Energy (15 min) 102	R	3, 4	float
0x4CC	1228	4	Energy (15 min) 103	R	3, 4	float
0x4CE	1230	4	Energy (15 min) 104	R	3, 4	float
0x4D0	1232	4	Energy (15 min) 105	R	3, 4	float
0x4D2	1234	4	Energy (15 min) 106	R	3, 4	float
0x4D4	1236	4	Energy (15 min) 107	R	3, 4	float
0x4D6	1238	4	Energy (15 min) 108	R	3, 4	float
0x4D8	1240	4	Energy (15 min) 109	R	3, 4	float
0x4DA	1242	4	Energy (15 min) 110	R	3, 4	float
0x4DC	1244	4	Energy (15 min) 111	R	3, 4	float

0x4DE	1246	4	Energy (15 min) 112	R	3, 4	float
0x4E0	1248	4	Energy (15 min) 113	R	3, 4	float
0x4E2	1250	4	Energy (15 min) 114	R	3, 4	float
0x4E4	1252	4	Energy (15 min) 115	R	3, 4	float
0x4E6	1254	4	Energy (15 min) 116	R	3, 4	float
0x4E8	1256	4	Energy (15 min) 117	R	3, 4	float
0x4EA	1258	4	Energy (15 min) 118	R	3, 4	float
0x4EC	1260	4	Energy (15 min) 119	R	3, 4	float
0x4EE	1262	4	Energy (15 min) 120	R	3, 4	float

Měření / 24 hodinové registry (nulují se v 00:00)

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x500	1280	4	Energy (24h) 1	R	3, 4	float		Energy = "Pulse Count" / "PPU"
0x502	1282	4	Energy (24h) 2	R	3, 4	float		
0x504	1284	4	Energy (24h) 3	R	3, 4	float		
0x506	1286	4	Energy (24h) 4	R	3, 4	float		
0x508	1288	4	Energy (24h) 5	R	3, 4	float		
0x50A	1290	4	Energy (24h) 6	R	3, 4	float		
0x50C	1292	4	Energy (24h) 7	R	3, 4	float		
0x50E	1294	4	Energy (24h) 8	R	3, 4	float		
0x510	1296	4	Energy (24h) 9	R	3, 4	float		
0x512	1298	4	Energy (24h) 10	R	3, 4	float		
0x514	1300	4	Energy (24h) 11	R	3, 4	float		
0x516	1302	4	Energy (24h) 12	R	3, 4	float		
0x518	1304	4	Energy (24h) 13	R	3, 4	float		
0x51A	1306	4	Energy (24h) 14	R	3, 4	float		
0x51C	1308	4	Energy (24h) 15	R	3, 4	float		
0x51E	1310	4	Energy (24h) 16	R	3, 4	float		
0x520	1312	4	Energy (24h) 17	R	3, 4	float		
0x522	1314	4	Energy (24h) 18	R	3, 4	float		
0x524	1316	4	Energy (24h) 19	R	3, 4	float		
0x526	1318	4	Energy (24h) 20	R	3, 4	float		
0x528	1320	4	Energy (24h) 21	R	3, 4	float		
0x52A	1322	4	Energy (24h) 22	R	3, 4	float		
0x52C	1324	4	Energy (24h) 23	R	3, 4	float		
0x52E	1326	4	Energy (24h) 24	R	3, 4	float		
0x530	1328	4	Energy (24h) 25	R	3, 4	float		
0x532	1330	4	Energy (24h) 26	R	3, 4	float		
0x534	1332	4	Energy (24h) 27	R	3, 4	float		
0x536	1334	4	Energy (24h) 28	R	3, 4	float		
0x538	1336	4	Energy (24h) 29	R	3, 4	float		
0x53A	1338	4	Energy (24h) 30	R	3, 4	float		
0x53C	1340	4	Energy (24h) 31	R	3, 4	float		
0x53E	1342	4	Energy (24h) 32	R	3, 4	float		
0x540	1344	4	Energy (24h) 33	R	3, 4	float		
0x542	1346	4	Energy (24h) 34	R	3, 4	float		
0x544	1348	4	Energy (24h) 35	R	3, 4	float		
0x546	1350	4	Energy (24h) 36	R	3, 4	float		
0x548	1352	4	Energy (24h) 37	R	3, 4	float		
0x54A	1354	4	Energy (24h) 38	R	3, 4	float		
0x54C	1356	4	Energy (24h) 39	R	3, 4	float		
0x54E	1358	4	Energy (24h) 40	R	3, 4	float		
0x550	1360	4	Energy (24h) 41	R	3, 4	float		
0x552	1362	4	Energy (24h) 42	R	3, 4	float		
0x554	1364	4	Energy (24h) 43	R	3, 4	float		
0x556	1366	4	Energy (24h) 44	R	3, 4	float		
0x558	1368	4	Energy (24h) 45	R	3, 4	float		
0x55A	1370	4	Energy (24h) 46	R	3, 4	float		
0x55C	1372	4	Energy (24h) 47	R	3, 4	float		
0x55E	1374	4	Energy (24h) 48	R	3, 4	float		
0x560	1376	4	Energy (24h) 49	R	3, 4	float		
0x562	1378	4	Energy (24h) 50	R	3, 4	float		
0x564	1380	4	Energy (24h) 51	R	3, 4	float		
0x566	1382	4	Energy (24h) 52	R	3, 4	float		
0x568	1384	4	Energy (24h) 53	R	3, 4	float		
0x56A	1386	4	Energy (24h) 54	R	3, 4	float		
0x56C	1388	4	Energy (24h) 55	R	3, 4	float		
0x56E	1390	4	Energy (24h) 56	R	3, 4	float		
0x570	1392	4	Energy (24h) 57	R	3, 4	float		
0x572	1394	4	Energy (24h) 58	R	3, 4	float		
0x574	1396	4	Energy (24h) 59	R	3, 4	float		

0x576	1398	4	Energy (24h) 60	R	3, 4	float	
0x578	1400	4	Energy (24h) 61	R	3, 4	float	
0x57A	1402	4	Energy (24h) 62	R	3, 4	float	
0x57C	1404	4	Energy (24h) 63	R	3, 4	float	
0x57E	1406	4	Energy (24h) 64	R	3, 4	float	
0x580	1408	4	Energy (24h) 65	R	3, 4	float	
0x582	1410	4	Energy (24h) 66	R	3, 4	float	
0x584	1412	4	Energy (24h) 67	R	3, 4	float	
0x586	1414	4	Energy (24h) 68	R	3, 4	float	
0x588	1416	4	Energy (24h) 69	R	3, 4	float	
0x58A	1418	4	Energy (24h) 70	R	3, 4	float	
0x58C	1420	4	Energy (24h) 71	R	3, 4	float	
0x58E	1422	4	Energy (24h) 72	R	3, 4	float	
0x590	1424	4	Energy (24h) 73	R	3, 4	float	
0x592	1426	4	Energy (24h) 74	R	3, 4	float	
0x594	1428	4	Energy (24h) 75	R	3, 4	float	
0x596	1430	4	Energy (24h) 76	R	3, 4	float	
0x598	1432	4	Energy (24h) 77	R	3, 4	float	
0x59A	1434	4	Energy (24h) 78	R	3, 4	float	
0x59C	1436	4	Energy (24h) 79	R	3, 4	float	
0x59E	1438	4	Energy (24h) 80	R	3, 4	float	
0x5A0	1440	4	Energy (24h) 81	R	3, 4	float	
0x5A2	1442	4	Energy (24h) 82	R	3, 4	float	
0x5A4	1444	4	Energy (24h) 83	R	3, 4	float	
0x5A6	1446	4	Energy (24h) 84	R	3, 4	float	
0x5A8	1448	4	Energy (24h) 85	R	3, 4	float	
0x5AA	1450	4	Energy (24h) 86	R	3, 4	float	
0x5AC	1452	4	Energy (24h) 87	R	3, 4	float	
0x5AE	1454	4	Energy (24h) 88	R	3, 4	float	
0x5B0	1456	4	Energy (24h) 89	R	3, 4	float	
0x5B2	1458	4	Energy (24h) 90	R	3, 4	float	
0x5B4	1460	4	Energy (24h) 91	R	3, 4	float	
0x5B6	1462	4	Energy (24h) 92	R	3, 4	float	
0x5B8	1464	4	Energy (24h) 93	R	3, 4	float	
0x5BA	1466	4	Energy (24h) 94	R	3, 4	float	
0x5BC	1468	4	Energy (24h) 95	R	3, 4	float	
0x5BE	1470	4	Energy (24h) 96	R	3, 4	float	
0x5C0	1472	4	Energy (24h) 97	R	3, 4	float	
0x5C2	1474	4	Energy (24h) 98	R	3, 4	float	
0x5C4	1476	4	Energy (24h) 99	R	3, 4	float	
0x5C6	1478	4	Energy (24h) 100	R	3, 4	float	
0x5C8	1480	4	Energy (24h) 101	R	3, 4	float	
0x5CA	1482	4	Energy (24h) 102	R	3, 4	float	
0x5CC	1484	4	Energy (24h) 103	R	3, 4	float	
0x5CE	1486	4	Energy (24h) 104	R	3, 4	float	
0x5D0	1488	4	Energy (24h) 105	R	3, 4	float	
0x5D2	1490	4	Energy (24h) 106	R	3, 4	float	
0x5D4	1492	4	Energy (24h) 107	R	3, 4	float	
0x5D6	1494	4	Energy (24h) 108	R	3, 4	float	
0x5D8	1496	4	Energy (24h) 109	R	3, 4	float	
0x5DA	1498	4	Energy (24h) 110	R	3, 4	float	
0x5DC	1500	4	Energy (24h) 111	R	3, 4	float	
0x5DE	1502	4	Energy (24h) 112	R	3, 4	float	
0x5E0	1504	4	Energy (24h) 113	R	3, 4	float	
0x5E2	1506	4	Energy (24h) 114	R	3, 4	float	
0x5E4	1508	4	Energy (24h) 115	R	3, 4	float	
0x5E6	1510	4	Energy (24h) 116	R	3, 4	float	
0x5E8	1512	4	Energy (24h) 117	R	3, 4	float	
0x5EA	1514	4	Energy (24h) 118	R	3, 4	float	
0x5EC	1516	4	Energy (24h) 119	R	3, 4	float	
0x5EE	1518	4	Energy (24h) 120	R	3, 4	float	

Měření / okamžitý výkon (výpočetem z periody mezi impulzy)

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x600	1536	4	Power 1	R	3, 4	float	kW	(energy per hour)
0x602	1538	4	Power 2	R	3, 4	float		
0x604	1540	4	Power 3	R	3, 4	float		
0x606	1542	4	Power 4	R	3, 4	float		
0x608	1544	4	Power 5	R	3, 4	float		
0x60A	1546	4	Power 6	R	3, 4	float		
0x60C	1548	4	Power 7	R	3, 4	float		

0x60E	1550	4	Power 8	R	3, 4	float
0x610	1552	4	Power 9	R	3, 4	float
0x612	1554	4	Power 10	R	3, 4	float
0x614	1556	4	Power 11	R	3, 4	float
0x616	1558	4	Power 12	R	3, 4	float
0x618	1560	4	Power 13	R	3, 4	float
0x61A	1562	4	Power 14	R	3, 4	float
0x61C	1564	4	Power 15	R	3, 4	float
0x61E	1566	4	Power 16	R	3, 4	float
0x620	1568	4	Power 17	R	3, 4	float
0x622	1570	4	Power 18	R	3, 4	float
0x624	1572	4	Power 19	R	3, 4	float
0x626	1574	4	Power 20	R	3, 4	float
0x628	1576	4	Power 21	R	3, 4	float
0x62A	1578	4	Power 22	R	3, 4	float
0x62C	1580	4	Power 23	R	3, 4	float
0x62E	1582	4	Power 24	R	3, 4	float
0x630	1584	4	Power 25	R	3, 4	float
0x632	1586	4	Power 26	R	3, 4	float
0x634	1588	4	Power 27	R	3, 4	float
0x636	1590	4	Power 28	R	3, 4	float
0x638	1592	4	Power 29	R	3, 4	float
0x63A	1594	4	Power 30	R	3, 4	float
0x63C	1596	4	Power 31	R	3, 4	float
0x63E	1598	4	Power 32	R	3, 4	float
0x640	1600	4	Power 33	R	3, 4	float
0x642	1602	4	Power 34	R	3, 4	float
0x644	1604	4	Power 35	R	3, 4	float
0x646	1606	4	Power 36	R	3, 4	float
0x648	1608	4	Power 37	R	3, 4	float
0x64A	1610	4	Power 38	R	3, 4	float
0x64C	1612	4	Power 39	R	3, 4	float
0x64E	1614	4	Power 40	R	3, 4	float
0x650	1616	4	Power 41	R	3, 4	float
0x652	1618	4	Power 42	R	3, 4	float
0x654	1620	4	Power 43	R	3, 4	float
0x656	1622	4	Power 44	R	3, 4	float
0x658	1624	4	Power 45	R	3, 4	float
0x65A	1626	4	Power 46	R	3, 4	float
0x65C	1628	4	Power 47	R	3, 4	float
0x65E	1630	4	Power 48	R	3, 4	float
0x660	1632	4	Power 49	R	3, 4	float
0x662	1634	4	Power 50	R	3, 4	float
0x664	1636	4	Power 51	R	3, 4	float
0x666	1638	4	Power 52	R	3, 4	float
0x668	1640	4	Power 53	R	3, 4	float
0x66A	1642	4	Power 54	R	3, 4	float
0x66C	1644	4	Power 55	R	3, 4	float
0x66E	1646	4	Power 56	R	3, 4	float
0x670	1648	4	Power 57	R	3, 4	float
0x672	1650	4	Power 58	R	3, 4	float
0x674	1652	4	Power 59	R	3, 4	float
0x676	1654	4	Power 60	R	3, 4	float
0x678	1656	4	Power 61	R	3, 4	float
0x67A	1658	4	Power 62	R	3, 4	float
0x67C	1660	4	Power 63	R	3, 4	float
0x67E	1662	4	Power 64	R	3, 4	float
0x680	1664	4	Power 65	R	3, 4	float
0x682	1666	4	Power 66	R	3, 4	float
0x684	1668	4	Power 67	R	3, 4	float
0x686	1670	4	Power 68	R	3, 4	float
0x688	1672	4	Power 69	R	3, 4	float
0x68A	1674	4	Power 70	R	3, 4	float
0x68C	1676	4	Power 71	R	3, 4	float
0x68E	1678	4	Power 72	R	3, 4	float
0x690	1680	4	Power 73	R	3, 4	float
0x692	1682	4	Power 74	R	3, 4	float
0x694	1684	4	Power 75	R	3, 4	float
0x696	1686	4	Power 76	R	3, 4	float
0x698	1688	4	Power 77	R	3, 4	float
0x69A	1690	4	Power 78	R	3, 4	float
0x69C	1692	4	Power 79	R	3, 4	float
0x69E	1694	4	Power 80	R	3, 4	float
0x6A0	1696	4	Power 81	R	3, 4	float

0x6A2	1698	4	Power 82	R	3, 4	float
0x6A4	1700	4	Power 83	R	3, 4	float
0x6A6	1702	4	Power 84	R	3, 4	float
0x6A8	1704	4	Power 85	R	3, 4	float
0x6AA	1706	4	Power 86	R	3, 4	float
0x6AC	1708	4	Power 87	R	3, 4	float
0x6AE	1710	4	Power 88	R	3, 4	float
0x6B0	1712	4	Power 89	R	3, 4	float
0x6B2	1714	4	Power 90	R	3, 4	float
0x6B4	1716	4	Power 91	R	3, 4	float
0x6B6	1718	4	Power 92	R	3, 4	float
0x6B8	1720	4	Power 93	R	3, 4	float
0x6BA	1722	4	Power 94	R	3, 4	float
0x6BC	1724	4	Power 95	R	3, 4	float
0x6BE	1726	4	Power 96	R	3, 4	float
0x6C0	1728	4	Power 97	R	3, 4	float
0x6C2	1730	4	Power 98	R	3, 4	float
0x6C4	1732	4	Power 99	R	3, 4	float
0x6C6	1734	4	Power 100	R	3, 4	float
0x6C8	1736	4	Power 101	R	3, 4	float
0x6CA	1738	4	Power 102	R	3, 4	float
0x6CC	1740	4	Power 103	R	3, 4	float
0x6CE	1742	4	Power 104	R	3, 4	float
0x6D0	1744	4	Power 105	R	3, 4	float
0x6D2	1746	4	Power 106	R	3, 4	float
0x6D4	1748	4	Power 107	R	3, 4	float
0x6D6	1750	4	Power 108	R	3, 4	float
0x6D8	1752	4	Power 109	R	3, 4	float
0x6DA	1754	4	Power 110	R	3, 4	float
0x6DC	1756	4	Power 111	R	3, 4	float
0x6DE	1758	4	Power 112	R	3, 4	float
0x6E0	1760	4	Power 113	R	3, 4	float
0x6E2	1762	4	Power 114	R	3, 4	float
0x6E4	1764	4	Power 115	R	3, 4	float
0x6E6	1766	4	Power 116	R	3, 4	float
0x6E8	1768	4	Power 117	R	3, 4	float
0x6EA	1770	4	Power 118	R	3, 4	float
0x6EC	1772	4	Power 119	R	3, 4	float
0x6EE	1774	4	Power 120	R	3, 4	float

Měření / status

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x700	1792	2	RTC/year	R	3, 4	uint16		
0x701	1793	2	RTC/month	R	3, 4	uint16		
0x702	1794	2	RTC/day	R	3, 4	uint16		
0x703	1795	2	RTC/hour	R	3, 4	uint16		
0x704	1796	2	RTC/minute	R	3, 4	uint16		
0x705	1797	2	RTC/second	R	3, 4	uint16		
0x706	1798	4	System Ticks	R	3, 4	uint32	x10ms	
0x708	1800	4	Sync. Time	R	3, 4	uint32	s	time from SYNC signal
0x70A	1802	4	Status Flags	R	3, 4	uint32		b0 ... TARIF 2 b1 ... sync time is running b2 ... sync OK b3 ... outputs inverted
0x70C	1804	4	Error Flags	R	3, 4	uint32		b0 ... RTC error b1 ... RTC osc fail b2 ... RTC low battery b3 ... SYNC wait b4 ... SYNC absent b5 ... FRAM error b6 ... DATAFLASH error b7 ... POWER 24V error b8-b11 ... OUTPUT module error b12-b15 ... ATS input module error b16 ... ECT input module error b17 ... OUTPUT model - manual b18 ... SYNC unstable b19 ... RESTART flag
0x70E	1806	4	Params Checksum	R	3, 4	uint32		param change detection
0x710	1808	4	Outputs State	R	3, 4	uint32		b0=OUTPUT 1, b1=OUTPUT 2, ...
0x712	1810	4	Outputs Manual	R	3, 4	uint32		b0=OUTPUT 1, b1=OUTPUT 2, ...

0x714	1812	2	Inputs States 1 - 16	R	3, 4		b0=INPUT 1, b1=INPUT 2, ...
0x715	1813	2	Inputs States 17 - 32	R	3, 4		b0=INPUT 17, b1=INPUT 18, ...
0x716	1814	2	Inputs States 33 - 48	R	3, 4		b0=INPUT 33, b1=INPUT 34, ...
0x717	1815	2	Inputs States 49 - 64	R	3, 4		b0=INPUT 49, b1=INPUT 50, ...
0x718	1816	2	Inputs States 65 - 80	R	3, 4		b0=INPUT 65, b1=INPUT 66, ...
0x719	1817	2	Inputs States 81 - 96	R	3, 4		b0=INPUT 81, b1=INPUT 82, ...
0x71A	1818	2	Inputs States 97 - 112	R	3, 4		b0=INPUT 97, b1=INPUT 98, ...
0x71B	1819	2	Inputs States 113 - 120	R	3, 4		b0=INPUT 113, b1=INPUT 114, ...
0x71C	1820	2	Regulation, status	R	3, 4	uint16	0 = IDLE (stopped: no sync, no limit) 1 = LOW POWER 2 = OPTIMAL POWER 3 = HIGH POWER 4 = OVERLIMIT
0x71D	1821	4	Regulation, limit	R	3, 4	uint32	RegMax [T1/T2] (rezervovaná kapacita)
0x71F	1823	4	Regulation, top power limit	R	3, 4	uint32	rezervovaný příkon
0x721	1825	4	Regulation, value	R	3, 4	uint32	Main MSR - current integral value
0x723	1827	4	Regulation, prediction	R	3, 4	uint32	Main MSR - predicted value
0x725	1829	2	Regulation, power	R	3, 4	uint16	Main MSR - instantaneous power
0x726	1830	2	Regulation, power-free	R	3, 4	int16	signed! Free power = limit - prediction Note: limited by top power limit or RegMax

Měření / registry impulzů

*W** - zápis povolen pouze za podmínky, kdy měření není mapováno, tzn. *i/o module=0, input=0*

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x800	2048	4	Total Counter 1	R/W*	3, 4	uint32		
0x802	2050	4	Total Counter 2	R/W*	3, 4	uint32		
0x804	2052	4	Total Counter 3	R/W*	3, 4	uint32		
0x806	2054	4	Total Counter 4	R/W*	3, 4	uint32		
0x808	2056	4	Total Counter 5	R/W*	3, 4	uint32		
0x80A	2058	4	Total Counter 6	R/W*	3, 4	uint32		
0x80C	2060	4	Total Counter 7	R/W*	3, 4	uint32		
0x80E	2062	4	Total Counter 8	R/W*	3, 4	uint32		
0x810	2064	4	Total Counter 9	R/W*	3, 4	uint32		
0x812	2066	4	Total Counter 10	R/W*	3, 4	uint32		
0x814	2068	4	Total Counter 11	R/W*	3, 4	uint32		
0x816	2070	4	Total Counter 12	R/W*	3, 4	uint32		
0x818	2072	4	Total Counter 13	R/W*	3, 4	uint32		
0x81A	2074	4	Total Counter 14	R/W*	3, 4	uint32		
0x81C	2076	4	Total Counter 15	R/W*	3, 4	uint32		
0x81E	2078	4	Total Counter 16	R/W*	3, 4	uint32		
0x820	2080	4	Total Counter 17	R/W*	3, 4	uint32		
0x822	2082	4	Total Counter 18	R/W*	3, 4	uint32		
0x824	2084	4	Total Counter 19	R/W*	3, 4	uint32		
0x826	2086	4	Total Counter 20	R/W*	3, 4	uint32		
0x828	2088	4	Total Counter 21	R/W*	3, 4	uint32		
0x82A	2090	4	Total Counter 22	R/W*	3, 4	uint32		
0x82C	2092	4	Total Counter 23	R/W*	3, 4	uint32		
0x82E	2094	4	Total Counter 24	R/W*	3, 4	uint32		
0x830	2096	4	Total Counter 25	R/W*	3, 4	uint32		
0x832	2098	4	Total Counter 26	R/W*	3, 4	uint32		
0x834	2100	4	Total Counter 27	R/W*	3, 4	uint32		
0x836	2102	4	Total Counter 28	R/W*	3, 4	uint32		
0x838	2104	4	Total Counter 29	R/W*	3, 4	uint32		
0x83A	2106	4	Total Counter 30	R/W*	3, 4	uint32		
0x83C	2108	4	Total Counter 31	R/W*	3, 4	uint32		
0x83E	2110	4	Total Counter 32	R/W*	3, 4	uint32		
0x840	2112	4	Total Counter 33	R/W*	3, 4	uint32		
0x842	2114	4	Total Counter 34	R/W*	3, 4	uint32		
0x844	2116	4	Total Counter 35	R/W*	3, 4	uint32		
0x846	2118	4	Total Counter 36	R/W*	3, 4	uint32		
0x848	2120	4	Total Counter 37	R/W*	3, 4	uint32		
0x84A	2122	4	Total Counter 38	R/W*	3, 4	uint32		
0x84C	2124	4	Total Counter 39	R/W*	3, 4	uint32		
0x84E	2126	4	Total Counter 40	R/W*	3, 4	uint32		
0x850	2128	4	Total Counter 41	R/W*	3, 4	uint32		
0x852	2130	4	Total Counter 42	R/W*	3, 4	uint32		
0x854	2132	4	Total Counter 43	R/W*	3, 4	uint32		
0x856	2134	4	Total Counter 44	R/W*	3, 4	uint32		
0x858	2136	4	Total Counter 45	R/W*	3, 4	uint32		
0x85A	2138	4	Total Counter 46	R/W*	3, 4	uint32		
0x85C	2140	4	Total Counter 47	R/W*	3, 4	uint32		
0x85E	2142	4	Total Counter 48	R/W*	3, 4	uint32		

0x860	2144	4	Total Counter 49	R/W*	3, 4	uint32
0x862	2146	4	Total Counter 50	R/W*	3, 4	uint32
0x864	2148	4	Total Counter 51	R/W*	3, 4	uint32
0x866	2150	4	Total Counter 52	R/W*	3, 4	uint32
0x868	2152	4	Total Counter 53	R/W*	3, 4	uint32
0x86A	2154	4	Total Counter 54	R/W*	3, 4	uint32
0x86C	2156	4	Total Counter 55	R/W*	3, 4	uint32
0x86E	2158	4	Total Counter 56	R/W*	3, 4	uint32
0x870	2160	4	Total Counter 57	R/W*	3, 4	uint32
0x872	2162	4	Total Counter 58	R/W*	3, 4	uint32
0x874	2164	4	Total Counter 59	R/W*	3, 4	uint32
0x876	2166	4	Total Counter 60	R/W*	3, 4	uint32
0x878	2168	4	Total Counter 61	R/W*	3, 4	uint32
0x87A	2170	4	Total Counter 62	R/W*	3, 4	uint32
0x87C	2172	4	Total Counter 63	R/W*	3, 4	uint32
0x87E	2174	4	Total Counter 64	R/W*	3, 4	uint32
0x880	2176	4	Total Counter 65	R/W*	3, 4	uint32
0x882	2178	4	Total Counter 66	R/W*	3, 4	uint32
0x884	2180	4	Total Counter 67	R/W*	3, 4	uint32
0x886	2182	4	Total Counter 68	R/W*	3, 4	uint32
0x888	2184	4	Total Counter 69	R/W*	3, 4	uint32
0x88A	2186	4	Total Counter 70	R/W*	3, 4	uint32
0x88C	2188	4	Total Counter 71	R/W*	3, 4	uint32
0x88E	2190	4	Total Counter 72	R/W*	3, 4	uint32
0x890	2192	4	Total Counter 73	R/W*	3, 4	uint32
0x892	2194	4	Total Counter 74	R/W*	3, 4	uint32
0x894	2196	4	Total Counter 75	R/W*	3, 4	uint32
0x896	2198	4	Total Counter 76	R/W*	3, 4	uint32
0x898	2200	4	Total Counter 77	R/W*	3, 4	uint32
0x89A	2202	4	Total Counter 78	R/W*	3, 4	uint32
0x89C	2204	4	Total Counter 79	R/W*	3, 4	uint32
0x89E	2206	4	Total Counter 80	R/W*	3, 4	uint32
0x8A0	2208	4	Total Counter 81	R/W*	3, 4	uint32
0x8A2	2210	4	Total Counter 82	R/W*	3, 4	uint32
0x8A4	2212	4	Total Counter 83	R/W*	3, 4	uint32
0x8A6	2214	4	Total Counter 84	R/W*	3, 4	uint32
0x8A8	2216	4	Total Counter 85	R/W*	3, 4	uint32
0x8AA	2218	4	Total Counter 86	R/W*	3, 4	uint32
0x8AC	2220	4	Total Counter 87	R/W*	3, 4	uint32
0x8AE	2222	4	Total Counter 88	R/W*	3, 4	uint32
0x8B0	2224	4	Total Counter 89	R/W*	3, 4	uint32
0x8B2	2226	4	Total Counter 90	R/W*	3, 4	uint32
0x8B4	2228	4	Total Counter 91	R/W*	3, 4	uint32
0x8B6	2230	4	Total Counter 92	R/W*	3, 4	uint32
0x8B8	2232	4	Total Counter 93	R/W*	3, 4	uint32
0x8BA	2234	4	Total Counter 94	R/W*	3, 4	uint32
0x8BC	2236	4	Total Counter 95	R/W*	3, 4	uint32
0x8BE	2238	4	Total Counter 96	R/W*	3, 4	uint32
0x8C0	2240	4	Total Counter 97	R/W*	3, 4	uint32
0x8C2	2242	4	Total Counter 98	R/W*	3, 4	uint32
0x8C4	2244	4	Total Counter 99	R/W*	3, 4	uint32
0x8C6	2246	4	Total Counter 100	R/W*	3, 4	uint32
0x8C8	2248	4	Total Counter 101	R/W*	3, 4	uint32
0x8CA	2250	4	Total Counter 102	R/W*	3, 4	uint32
0x8CC	2252	4	Total Counter 103	R/W*	3, 4	uint32
0x8CE	2254	4	Total Counter 104	R/W*	3, 4	uint32
0x8D0	2256	4	Total Counter 105	R/W*	3, 4	uint32
0x8D2	2258	4	Total Counter 106	R/W*	3, 4	uint32
0x8D4	2260	4	Total Counter 107	R/W*	3, 4	uint32
0x8D6	2262	4	Total Counter 108	R/W*	3, 4	uint32
0x8D8	2264	4	Total Counter 109	R/W*	3, 4	uint32
0x8DA	2266	4	Total Counter 110	R/W*	3, 4	uint32
0x8DC	2268	4	Total Counter 111	R/W*	3, 4	uint32
0x8DE	2270	4	Total Counter 112	R/W*	3, 4	uint32
0x8E0	2272	4	Total Counter 113	R/W*	3, 4	uint32
0x8E2	2274	4	Total Counter 114	R/W*	3, 4	uint32
0x8E4	2276	4	Total Counter 115	R/W*	3, 4	uint32
0x8E6	2278	4	Total Counter 116	R/W*	3, 4	uint32
0x8E8	2280	4	Total Counter 117	R/W*	3, 4	uint32
0x8EA	2282	4	Total Counter 118	R/W*	3, 4	uint32
0x8EC	2284	4	Total Counter 119	R/W*	3, 4	uint32
0x8EE	2286	4	Total Counter 120	R/W*	3, 4	uint32

Měření / registry energie (od verze 3.23.9.12)

Pozor, registry energie nejsou synchronní s registry impulzů (odlišný postup vyhodnocení měření)!

Addr (HEX)	Addr (DEC)	Size (byte)	Register description	Access	MODBUS function	Data format	Unit	Notes
0x900	2304	4	Total energy 1	R	3, 4	uint32		kWh
0x902	2306	4	Total energy 2	R	3, 4	uint32		
0x904	2308	4	Total energy 3	R	3, 4	uint32		
0x906	2310	4	Total energy 4	R	3, 4	uint32		
0x908	2312	4	Total energy 5	R	3, 4	uint32		
0x90A	2314	4	Total energy 6	R	3, 4	uint32		
0x90C	2316	4	Total energy 7	R	3, 4	uint32		
0x90E	2318	4	Total energy 8	R	3, 4	uint32		
0x910	2320	4	Total energy 9	R	3, 4	uint32		
0x912	2322	4	Total energy 10	R	3, 4	uint32		
0x914	2324	4	Total energy 11	R	3, 4	uint32		
0x916	2326	4	Total energy 12	R	3, 4	uint32		
0x918	2328	4	Total energy 13	R	3, 4	uint32		
0x91A	2330	4	Total energy 14	R	3, 4	uint32		
0x91C	2332	4	Total energy 15	R	3, 4	uint32		
0x91E	2334	4	Total energy 16	R	3, 4	uint32		
0x920	2336	4	Total energy 17	R	3, 4	uint32		
0x922	2338	4	Total energy 18	R	3, 4	uint32		
0x924	2340	4	Total energy 19	R	3, 4	uint32		
0x926	2342	4	Total energy 20	R	3, 4	uint32		
0x928	2344	4	Total energy 21	R	3, 4	uint32		
0x92A	2346	4	Total energy 22	R	3, 4	uint32		
0x92C	2348	4	Total energy 23	R	3, 4	uint32		
0x92E	2350	4	Total energy 24	R	3, 4	uint32		
0x930	2352	4	Total energy 25	R	3, 4	uint32		
0x932	2354	4	Total energy 26	R	3, 4	uint32		
0x934	2356	4	Total energy 27	R	3, 4	uint32		
0x936	2358	4	Total energy 28	R	3, 4	uint32		
0x938	2360	4	Total energy 29	R	3, 4	uint32		
0x93A	2362	4	Total energy 30	R	3, 4	uint32		
0x93C	2364	4	Total energy 31	R	3, 4	uint32		
0x93E	2366	4	Total energy 32	R	3, 4	uint32		
0x940	2368	4	Total energy 33	R	3, 4	uint32		
0x942	2370	4	Total energy 34	R	3, 4	uint32		
0x944	2372	4	Total energy 35	R	3, 4	uint32		
0x946	2374	4	Total energy 36	R	3, 4	uint32		
0x948	2376	4	Total energy 37	R	3, 4	uint32		
0x94A	2378	4	Total energy 38	R	3, 4	uint32		
0x94C	2380	4	Total energy 39	R	3, 4	uint32		
0x94E	2382	4	Total energy 40	R	3, 4	uint32		
0x950	2384	4	Total energy 41	R	3, 4	uint32		
0x952	2386	4	Total energy 42	R	3, 4	uint32		
0x954	2388	4	Total energy 43	R	3, 4	uint32		
0x956	2390	4	Total energy 44	R	3, 4	uint32		
0x958	2392	4	Total energy 45	R	3, 4	uint32		
0x95A	2394	4	Total energy 46	R	3, 4	uint32		
0x95C	2396	4	Total energy 47	R	3, 4	uint32		
0x95E	2398	4	Total energy 48	R	3, 4	uint32		
0x960	2400	4	Total energy 49	R	3, 4	uint32		
0x962	2402	4	Total energy 50	R	3, 4	uint32		
0x964	2404	4	Total energy 51	R	3, 4	uint32		
0x966	2406	4	Total energy 52	R	3, 4	uint32		
0x968	2408	4	Total energy 53	R	3, 4	uint32		
0x96A	2410	4	Total energy 54	R	3, 4	uint32		
0x96C	2412	4	Total energy 55	R	3, 4	uint32		
0x96E	2414	4	Total energy 56	R	3, 4	uint32		
0x970	2416	4	Total energy 57	R	3, 4	uint32		
0x972	2418	4	Total energy 58	R	3, 4	uint32		
0x974	2420	4	Total energy 59	R	3, 4	uint32		
0x976	2422	4	Total energy 60	R	3, 4	uint32		
0x978	2424	4	Total energy 61	R	3, 4	uint32		
0x97A	2426	4	Total energy 62	R	3, 4	uint32		
0x97C	2428	4	Total energy 63	R	3, 4	uint32		
0x97E	2430	4	Total energy 64	R	3, 4	uint32		
0x980	2432	4	Total energy 65	R	3, 4	uint32		
0x982	2434	4	Total energy 66	R	3, 4	uint32		
0x984	2436	4	Total energy 67	R	3, 4	uint32		
0x986	2438	4	Total energy 68	R	3, 4	uint32		
0x988	2440	4	Total energy 69	R	3, 4	uint32		

0x98A	2442	4	Total energy 70	R	3, 4	uint32
0x98C	2444	4	Total energy 71	R	3, 4	uint32
0x98E	2446	4	Total energy 72	R	3, 4	uint32
0x990	2448	4	Total energy 73	R	3, 4	uint32
0x992	2450	4	Total energy 74	R	3, 4	uint32
0x994	2452	4	Total energy 75	R	3, 4	uint32
0x996	2454	4	Total energy 76	R	3, 4	uint32
0x998	2456	4	Total energy 77	R	3, 4	uint32
0x99A	2458	4	Total energy 78	R	3, 4	uint32
0x99C	2460	4	Total energy 79	R	3, 4	uint32
0x99E	2462	4	Total energy 80	R	3, 4	uint32
0x9A0	2464	4	Total energy 81	R	3, 4	uint32
0x9A2	2466	4	Total energy 82	R	3, 4	uint32
0x9A4	2468	4	Total energy 83	R	3, 4	uint32
0x9A6	2470	4	Total energy 84	R	3, 4	uint32
0x9A8	2472	4	Total energy 85	R	3, 4	uint32
0x9AA	2474	4	Total energy 86	R	3, 4	uint32
0x9AC	2476	4	Total energy 87	R	3, 4	uint32
0x9AE	2478	4	Total energy 88	R	3, 4	uint32
0x9B0	2480	4	Total energy 89	R	3, 4	uint32
0x9B2	2482	4	Total energy 90	R	3, 4	uint32
0x9B4	2484	4	Total energy 91	R	3, 4	uint32
0x9B6	2486	4	Total energy 92	R	3, 4	uint32
0x9B8	2488	4	Total energy 93	R	3, 4	uint32
0x9BA	2490	4	Total energy 94	R	3, 4	uint32
0x9BC	2492	4	Total energy 95	R	3, 4	uint32
0x9BE	2494	4	Total energy 96	R	3, 4	uint32
0x9C0	2496	4	Total energy 97	R	3, 4	uint32
0x9C2	2498	4	Total energy 98	R	3, 4	uint32
0x9C4	2500	4	Total energy 99	R	3, 4	uint32
0x9C6	2502	4	Total energy 100	R	3, 4	uint32
0x9C8	2504	4	Total energy 101	R	3, 4	uint32
0x9CA	2506	4	Total energy 102	R	3, 4	uint32
0x9CC	2508	4	Total energy 103	R	3, 4	uint32
0x9CE	2510	4	Total energy 104	R	3, 4	uint32
0x9D0	2512	4	Total energy 105	R	3, 4	uint32
0x9D2	2514	4	Total energy 106	R	3, 4	uint32
0x9D4	2516	4	Total energy 107	R	3, 4	uint32
0x9D6	2518	4	Total energy 108	R	3, 4	uint32
0x9D8	2520	4	Total energy 109	R	3, 4	uint32
0x9DA	2522	4	Total energy 110	R	3, 4	uint32
0x9DC	2524	4	Total energy 111	R	3, 4	uint32
0x9DE	2526	4	Total energy 112	R	3, 4	uint32
0x9E0	2528	4	Total energy 113	R	3, 4	uint32
0x9E2	2530	4	Total energy 114	R	3, 4	uint32
0x9E4	2532	4	Total energy 115	R	3, 4	uint32
0x9E6	2534	4	Total energy 116	R	3, 4	uint32
0x9E8	2536	4	Total energy 117	R	3, 4	uint32
0x9EA	2538	4	Total energy 118	R	3, 4	uint32
0x9EC	2540	4	Total energy 119	R	3, 4	uint32
0x9EE	2542	4	Total energy 120	R	3, 4	uint32