





# **HIS-EMS Compatibility List**

**Energy System Components**



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## 1. PV Inverter


Manufacturer	Model	Protocol/s	Communication interface	Remark
	Tripower STP 4.0, STP 5.0, STP 6.0, STP 8.0, STP 10.0, 5000TL-20, 6000TL-20, 7000TL-20, 8000TL-10, 8000TL-20, 9000TL-20, 10000TL-10, 10000TL-20, 11000TL-20, 12000TL-10, 12000TL-20, 15000TL-10, 15000TL-30, 17000TL-10, 20000TL-30, 25000TL-30	Modbus/TCP	Ethernet RJ45	Is your desired inverter not listed? Similar models are most likely compatible. We can check this quickly.
	Sunny Boy: SB 1.5, 2.5, 3.0, 4.0, 5000SE-10, 3600SE-10, 3000TL-21, 3600TL-21, 4000TL-21, 5000TL-21	Modbus/TCP	Ethernet RJ45	
	Tripower X	Modbus/TCP	Ethernet RJ45	
	Tripower Core 1 (STP50-40, STP50-41)	Modbus/TCP	Ethernet RJ45	
	Tripower Core 2 (STP110-60)	Modbus/TCP	Ethernet RJ45	
	SE XXXX (1-phase)	Modbus/TCP	Ethernet RJ45	On request
	SE XK (3-phase) SE XXX (3-phase) SE XXXX (3-phase)	Modbus/TCP	Ethernet RJ45	
	SE HD Wave / SE XXXXH	Modbus/TCP	Ethernet RJ45	
	SE XK-RWS (hybrid) SE XXX-RWS (hybrid)	Modbus/TCP	Ethernet RJ45	
	Plenticore Plus 4.2, 5.5, 7.0, 8.5, 10	Modbus/TCP	Ethernet RJ45	
	Piko (Old Generation)	Modbus/TCP	Ethernet RJ45	
	Piko IQ 4.2, 5.5, 7.0, 8.5, 10	Modbus/TCP	Ethernet RJ45	
	Piko CI 10, 30, 50, 60	Modbus/TCP	Ethernet RJ45	
	Piko 12, 15, 17, 20	Modbus/TCP	Ethernet RJ45	Further versions can most likely be implemented without any problems.
	Primo	Modbus/TCP	Ethernet RJ45	On request
	Galvo	Modbus/TCP	Ethernet RJ45	On request
	Symo	Modbus/TCP	Ethernet RJ45	
	Gen24	Modbus/TCP	Ethernet RJ45	Requires additional counter

	SG10KTL / SG12KTL / SG15KTL / SG20KTL / SG30KTL / SG36KTL / SG40KTL / SG60KTL / SG80KTL /	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG30KU / SG36KU / SG60KU	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG5KTL-MT / SG6KTL-MT / SG8KTL-M / SG10KTL-M / SG10KTL-MT / SG12KTL-M / SG15KTL-M / SG17KTL-M / SG20KTL-M / SG30KTL-M / SG30KTL-M-V31 / SG33KTL-M / SG36KTL-M / SG40KTL-M / SG50KTL-M / SG50KTL-M-20 / SG60KTL-M / SG80KTL-M / SG80KTL-20 /	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	LP_P34KSG	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG33K3J / SG49K5J / SG34KJ	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG60KU-M	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG111HV / SG125HV / SG125HV-20 / SG125HX / SG125HX-JP / SG200HX-US / SG285HX / SG333HX / SG350HX-US / SG320HX / SG320HX-20 / SG350HX / SG350HX-20 / SG75CX-P2 / SG110CX-P2 / SG125CX-P2 / SG125CX-P2 /	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG25CX-SA / SG30CX / SG33CX / SG36CX-US / SG40CX / SG50CX / SG60CX-US / SG75CX / SG100CX / SG100CX-JP / SG110CX / SG49.5CX-JP / SG25CX-P2 / SG30CX-P2 / SG33CX-P2 / SG36CX-P2 / SG40CX-P2 / SG50CX-P2 / SG15CX-P2-LV / SG20CX-P2-LV / SG25CX-P2-LV	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG250HX / SG250HX-US / SG250HX-IN /	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
	SG3.0RT / SG4.0RT / SG5.0RT / SG6.0RT / SG7.0RT / SG8.0RT / SG10RT / SG12RT / SG15RT / SG17RT / SG20RT / SG22RT / SG23RT / SG25RT / SG3.0RT-P2 / SG4.0RT-P2 / SG5.0RT-P2 / SG6.0RT-P2 / SG7.0RT-P2 / SG8.0RT-P2 / SG10RT-P2 /	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	

	SG12RT-P2 / SG15RT-P2 / SG17RT-P2 / SG20RT-P2 / SG23RT-P2 / SG25RT-P2			
	SG5.5RS-JP / SG2.0RS-S / SG2.5RS-S / SG3.0RS-S / SG3.0RS / SG3.6RS / SG4.0RS / SG5.0RS / SG6.0RS / SG8.0RS / SG9.0RS / SG10RS / SG5.0RS-ADA / SG3.0RS-L / SG4.0RS-L / SG5.0RS-L / SG6.0RS-L / SG8.0RS-L / SG9.0RS-L / SG10RS-L	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
 HUAWEI	SmartLogger	Modbus/TCP	Ethernet RJ45	
	AE REFUsol 008K	Modbus/TCP	Ethernet RJ45	Some REFUsol models that have been revised with the AE interface are supported. REFUsol models that only have an old REFUsol interface and no AE identifier are not supported.
	AE REFUsol 010K	Modbus/TCP	Ethernet RJ45	
	AE 3TL 17-IEC (Gen3)	Modbus/TCP	Ethernet RJ45	
	AE 3TL 20-IEC (Gen3)	Modbus/TCP	Ethernet RJ45	


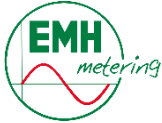





## 2. Charging Station

Manufacturer	Model	Protocol/s	Communication interface	Charging Points (CP)	Charging type		Max. Charge Power per LP	Energy meter		Access control		Remark	
					AC	DC		Uncalibrated	MID	RFID	key		
	Smart Wallbox 11/22 kW	Modbus/TCP	Ethernet RJ45	1	✓		22 kW	✓	Optional		✓		
	EVTAP-180K-5M-2C	Modbus/TCP	Ethernet RJ45	2		✓	180 kW	Optional	✓		✓		
	P30 c-series	Modbus/TCP, UDP	Ethernet RJ45	1	✓		22 kW	Optional	Optional		Optional		
	P30 x-series	Modbus/TCP, UDP	Ethernet RJ45	1	✓		22 kW	Optional	Optional		Optional		
	Germany Edition	Modbus/TCP, UDP	Ethernet RJ45	1	✓		11 kW	Optional	Optional		Optional		
	Pro	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	1	✓		22 kW		✓		✓	✓	
	Eco 2.0 22 kW	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	1	✓		22 kW				Optional	✓	
	Amtron Xtra	Modbus/TCP	Ethernet RJ45	1	✓		22 kW		✓		✓	✓	
	Amtron Premium	Modbus/TCP	Ethernet RJ45	1	✓		22 kW		✓		✓	✓	
	Amtron Professional(+) PnC	Modbus/TCP	Ethernet RJ45	1	✓		22 kW		✓		✓		
	Energy Control	Modbus/RTU	RS485	1	✓		11 kW				Optional	✓	
	connect.home	Modbus/TCP	Ethernet RJ45	1	✓		11 kW				✓		
	Local energy management (LEM)	Modbus/TCP	Ethernet RJ45	40	✓		22 kW						On request
	ECOLECTRA	Only with Modbus/TCP-capable baseboard	Ethernet RJ45	2	✓		22 kW		✓		✓		On request
	basicEvo	Modbus/RTU	RS485	1	✓		11 kW				Optional	Optional	
	smartEvo	Modbus/TCP	Ethernet RJ45	1	✓		11 kW		✓		✓		










	Duo WM/PM/BM (formerly Advanced)	Modbus/TCP	Ethernet RJ45	2	✓		22 kW		✓		✓		
	CITO 500	Modbus/TCP	Ethernet RJ45	2	✓	✓	22 kW AC / 50 kW DC		✓		✓		
<b>PRACHT®</b>	Alpha XT	Modbus/RTU	RS485	2	✓		11 kW				Optional		

	cPμ1	HTTP	Ethernet RJ45	1	✓		13.8 kW		External eCB1- Counter necessary				Only controllable via external eCB1
	Cph1	HTTP	Ethernet RJ45	1	✓		22 kW		✓ (internal eCB1 counter)		✓	✓	
	Live	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	1	✓		22 kW		✓		✓		On request
	Eve Single Pro-Line	Modbus/TCP	Ethernet RJ45	1	✓		22 kW		✓		✓		On request
	Eve Double Pro-Line	Modbus/TCP	Ethernet RJ45	2	✓		22 kW		✓		✓		On request
	Eve Double PG-Line	Modbus/TCP	Ethernet RJ45	2	✓		22 kW		✓		✓		On request
	HYC50	Modbus/TCP	Ethernet RJ45	2		✓	50 kW				✓		
	HYC150	Modbus/TCP	Ethernet RJ45	2	○	✓	150 kW				✓		Optional with AC interface
	HYC200	Modbus/TCP	Ethernet RJ45	2		✓	200 kW				✓		
	HYC300	Modbus/TCP	Ethernet RJ45	2	○	✓	300 kW				✓		Optional with AC interface
	HYC400	Modbus/TCP	Ethernet RJ45	2		✓	400 kW				✓		
<b>ABL</b>	eM4	Modbus/TCP	Ethernet RJ45	2	✓		22 kW		✓		✓		

### 3. Electricity Meters

Manufacturer	Model	Protocol/s	Communication interface	Phases		Measurement type		Digital contacts		Remark
				1	3	Direct (I <sub>max</sub> )	Secondary current (I <sub>max</sub> ) with separate converter	Input	Output	
	Base counter	SML	Optical read head via USB	✓	✓					occasional PIN flashing
	eHz	SML	Optical read head via USB or OKK-BKE Gen. F	✓	✓					occasional PIN flashing
	Base counter	SML	Optical read head via USB	✓	✓					occasional PIN flashing
	eHz	SML	Optical read head via USB or OKK-BKE Gen. F	✓	✓					occasional PIN flashing
	Base counter	SML	Optical read head via USB	✓	✓					occasional PIN flashing
	eHz	SML	Optical read head via USB	✓	✓					occasional PIN flashing
	Base counter	SML	Optical read head via USB	✓	✓					occasional PIN flashing
<b>Pulse counter</b>										On request
	ET/EM 100 Series	Modbus/RTU	RS485	✓		65 A				
	ET/EM 300 Series	Modbus/RTU	RS485	✓	✓	65 A				
	EM 24 series	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	✓	✓	65 A	5 A	✓	✓	
	B21, B23 and B24	Modbus/RTU	RS485	✓	✓	65 A	5 A (B24 only)	✓	✓	B21 single-phase only
	UMG 604, 801, 806, 20 CM and 96 RM-EL	Modbus/RTU	RS485	✓	✓	65 A	5 A	✓	✓	
	SDM220	Modbus/RTU	RS485	✓		80 A				
	SDM630	Modbus/RTU	RS485	✓	✓					
	SDM72DM V1	Modbus/RTU	RS485	✓	✓					
	SDM72DM V2	Modbus/RTU	RS485	✓	✓					



	EM 300	Modbus/TCP	Ethernet RJ45	✓	✓				
<b>SIEMENS</b>	Sentron PAC1665	Modbus/TCP	Ethernet RJ45	✓	✓			✓	✓
	Sentron PAC2200	Modbus/TCP	Ethernet RJ45	✓	✓			✓	✓
	Sentron PAC3200	Modbus/TCP	Ethernet RJ45	✓	✓			✓	✓
	Sentron PAC4200	Modbus/TCP	Ethernet RJ45	✓	✓			✓	✓
	EnergyMeter	Speedwire	Ethernet RJ45	✓	✓	63 A	5 A		
	PM5300 Series	Modbus/TCP	Ethernet RJ45	✓	✓				
	EcoCount S	Modbus/RTU	RS485	✓	✓	85 A	5 A		
	EEM-EM3XX	Modbus/RTU	RS485	✓	✓	80 A			
	EEM-EM3XX	Modbus/TCP	Ethernet RJ45	✓	✓	80 A			
	MMB 700	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	✓	✓				
	eMeter	Modbus/RTU	RS485	✓	✓				
	eCB1	HTTP	Ethernet RJ45	✓	✓				Can also be connected and read out via HTTP via eCB1: B-control Energy Manager, KLEFR 6934 Energy Meter, RCT Power measuring point, Tesla Powerwall Measuring point
	Professional II	Modbus/TCP	Ethernet RJ45	✓	✓				


## 4. Heat and cooling Meters

Manufacturer	Model	Protocol/s	Communication interface	Remark
<b>kamstrup</b>	MULTICAL 603	Modbus/TCP	Ethernet RJ45	
<b>WDV® MOLLINÉ</b>	Ultramess 603	Modbus/TCP	Ethernet RJ45	
	Supercal 531	Modbus/TCP	Ethernet RJ45	


## 5. Compressed air and gas Meters

Manufacturer	Model	Protocol/s	Communication interface	Remark
<b>berg</b> <small>Member of VIVAVIS</small>	BMG 1020	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	



## 6. Heat Pumps

Manufacturer	Model	Protocol/s	Communication interface	Remark
		UDP	USB, Digital contacts, Separate KMTronic hardware	On request


## 7. Heating Elements

Manufacturer	Model	Protocol/s	Communication interface	Remark
	AC THOR	Modbus/TCP	Ethernet RJ45	
	AC THOR 9s	Modbus/TCP	Ethernet RJ45	
	AC ELWA-E	Modbus/TCP	Ethernet RJ45	

## 8. Fuel cells

Manufacturer	Model	Protocol/s	Communication interface	Remark
	BlueGEN BG-15	Modbus/TCP	Ethernet RJ45	
	Fuel cell	Modbus/TCP	Ethernet RJ45	On request

## 9. CHP

Manufacturer	Model	Protocol/s	Communication interface	Remark
	g-box 50plus	Modbus/TCP	Ethernet RJ45	An Anybus-Gateway and a g-box are required to communicate with the CHP unit. If the connection is interrupted, the CHP unit must be manually switched back to external control mode in order to control the output. Otherwise the measured values can only be read.

## 10. Electrolysers

Manufacturer	Model	Protocol/s	Communication interface	Remark
	Electrolysers	Modbus/TCP	Ethernet RJ45	On request