

TESVOLT ENERGY MANAGER — COMPATIBILITY OVERVIEW

Software Version 1.32

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Scope of application

All devices are compatible with TESVOLT Energy Manager KC4S and Amperix and only with the latest software version 1.32. If you do not have this version, please contact TESVOLT. Devices that can process Modbus protocols (Modbus TCP/IP) can be analysed by us in order to be included in the TESVOLT compatibility list on request. The analysis does not mean immediate inclusion. The Modbus protocols themselves must be provided by the customer.

PV inverters



The PV inverter should be equipped with the latest firmware.

Manufacturer	Model	Protocols	Communication interface	Note
	AE REFUsol 008K	Modbus/TCP	Ethernet RJ45	REFUsol models that have been revised with the AE interface are supported. REFUsol models that still 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	
	Symo	Modbus Sunspec	Ethernet RJ45	
	Gen24	Modbus Sunspec	Ethernet RJ45	requires additional meter
	SmartLogger 3000	Modbus/TCP	Ethernet RJ45	
	Plenticore Plus 4.2, 5.5, 7.0, 8.5, 10	Modbus Sunspec	Ethernet RJ45	
	Piko alt	Modbus Sunspec	Ethernet RJ45	
	Piko IQ 4.2, 5.5, 7.0, 8.5, 10	Modbus Sunspec	Ethernet RJ45	
	Piko CI 10, 30, 50, 60	Modbus Sunspec	Ethernet RJ45	



	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 Sunspec	Ethernet RJ45		
	Sunny Boy: SB 1.5, 2.5, 4.0, 5000SE-10, 3600SE-10, 3000TL-21, 3600TL-21, 4000TL-21, 5000TL-21				
	Tripower X	Modbus Sunspec	Ethernet RJ45	compatible with STP X (STP12-50, STP15-50, STP20-50, STP25-50)	
	Tripower Core 1 (STP50-40, STP50-41)	Modbus Sunspec	Ethernet RJ45		
	Tripower Core 2 (STP110-60)	Modbus Sunspec	Ethernet RJ45		
	SE XXk (dreiphasig)	Modbus Sunspec	Ethernet RJ45		
	SE HD Wave / SE XXXXH	Modbus Sunspec	Ethernet RJ45		
	SE XXK-RWS	Modbus Sunspec	Ethernet RJ45		
 Clean power for all	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	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, SG12RT-P2, SG15RT-P2, SG17RT-P2, SG20RT-P2, SG23RT-P2, SG25RT-P2	Modbus/TCP, Modbus/RTU	Ethernet RJ45, RS485	
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	

Battery inverters


Manufacturer	Model	Protocols	Communication interface	Note
	SMA Sunny Tripower Storage X (STPS30-20, STPS50-20)	Modbus/TCP	Ethernet RJ45	Compatible cabinet system: TS HV 30-80 E Compatible container system: TPS HV 80 E
	TESVOLT PCS/ Gridcon PCS	Modbus/TCP	Ethernet RJ45	Compatible cabinet systems: TS-I HV, TS-I HV (E)

Charging stations


Manufacturer	Model	Protocols	Communication interface	Charging points (CP)	Charging type		Max. charging power per CP	Energy meter			Access control		Note
					AC	DC		Un-calibrated	MID	ME	RFID	Key	
	Eve Single Pro-Line	Modbus/TCP	Ethernet RJ45	1	✓		22 kW		✓		✓		
	Eve Double Pro-Line	Modbus/TCP	Ethernet RJ45	2	✓		22 kW		✓		✓		
	Eve Double PG-Line	Modbus/TCP	Ethernet RJ45	2	✓		22 kW		✓		✓		
	HYC50	Modbus/TCP	Ethernet RJ45	2	✓		50 kW				✓		
	HYC150	Modbus/TCP	Ethernet RJ45	2	✓		150 kW				✓		opt. with AC interface
	HYC200	Modbus/TCP	Ethernet RJ45	2	✓		200 kW				✓		
	HYC300	Modbus/TCP	Ethernet RJ45	2	✓		300 kW				✓		opt. with AC interface
	HYC400	Modbus/TCP	Ethernet RJ45	2	✓		400 kW				✓		

	Duo WM/PM/BM (ehemals Advanced)	Modbus/TCP	Ethernet RJ45	2	✓		22 kW		✓		✓		
	CITO 500	Modbus/TCP	Ethernet RJ45	2	✓	✓	22 kW AC / 50 kW DC		✓		✓		
	Energy Control	Modbus/RTU	RS485	1	✓		11 kW				opt.	✓	
	connect. home	Modbus/TCP	Ethernet RJ45	1	✓		11 kW				✓		
	P30 c-series	Modbus/TCP, UDP	Ethernet RJ45	1	✓		22 kW	opt.	opt.	opt.	opt.		
	P30 x-series	Modbus/TCP, UDP	Ethernet RJ45	1	✓		22 kW	opt.	opt.	opt.	opt.		
	Deutschland Edition	Modbus/TCP, UDP	Ethernet RJ45	1	✓		11 kW	opt.	opt.	opt.	opt.		
	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		✓		✓		
	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				opt.	✓	


Electricity meters

Manufacturer	Model	Protocols	Communication interface	Phases		Measurement type		Digital contacts		Note
				1	3	Direct (I _{max})	Secondary electricity (I _{max}) with separate transformer	Input	Output	
Janitza®	UMG 604, 806	Modbus/TCP	RS485, Ethernet RJ45	✓	✓			✓	✓	The TS-I HV 80/100 E and TS HV 30-80 E systems received the VDE-FNN certificate with the Janitza UMG 604.
SIEMENS	Sentron PAC2200	Modbus/TCP	Ethernet RJ45	✓	✓			✓	✓	The TS-I HV 80/100 system received the VDE-FNN certificate with the Siemens Sentron PAC2200.
	EnergyMeter	Speedwire	Ethernet RJ45	✓	✓	63 A	5 A			


Heat pumps

Manufacturer	Model	Protocols	Communication interface	Note
				ON/OFF via potential-free contact (relay contact via digital output) of the TESVOLT Energy Manager

Heating rods

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

CHP units

Manufacturer	Model	Protocols	Communication interface	Note
	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 returned to the external control mode so its output can be controlled. Otherwise, the measurement values can only be read.

List of abbreviations

Abbreviation used	Meaning
ext.	extern
dig.	digital
int.	intern
opt.	optional
PV	photovoltaics
rec.	recommended
req.	required

Legal notice

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