

7KM PAC measuring devices

Basic units



Connections	Power supply	Display	Interface	MID	PTB	7KM PAC1020	7KM PAC2200/ PAC2200CLP	7KM PAC3200T	7KM PAC3120
Transformer measurement									
Screw terminals	Self-powered	With	M-Bus	With	Without	–	7KM2200-2EA30-1GA1	–	–
				Without	Without	–	7KM2200-2EA30-1CA1	–	–
			Modbus RTU	With	Without	–	7KM2200-2EA30-1HA1	–	–
				Without	Without	–	7KM2200-2EA30-1DA1	–	–
				With	With	–	–	–	7KM3120-2BA01-1HA0 ¹⁾
				–	–	–	–	–	new
			Modbus TCP	With	With	–	7KM2200-2EA00-1JB1	–	–
				–	Without	–	7KM2200-2EA30-1JA1	–	–
				Without	Without	–	7KM2200-2EA30-1EA1	–	–
			Without	Without	Without	–	–	–	–
	AC/DC wide-range power supply unit	With	Modbus RTU	Without	Without	7KM1020-0BA01-1DA0	–	–	7KM3120-0BA01-1DA0
			Modbus TCP	Without	Without	–	–	–	–
			Modbus TCP/RTU	Without	Without	–	–	–	–
	DC power supply unit with extra-low voltage	With	Modbus TCP	Without	Without	–	–	7KM3200-0CA01-1AA0	–
			Modbus RTU	Without	Without	–	–	–	7KM3120-1BA01-1EA0
			–	–	–	–	–	–	–
Ring cable lug connection	AC/DC wide-range power supply unit	With	Modbus TCP	Without	Without	–	–	–	–
Direct measurement									
Screw terminals	Self-powered	With	M-Bus	With	Without	–	7KM2200-2EA40-1GA1	–	–
				Without	Without	–	7KM2200-2EA40-1CA1	–	–
			Modbus RTU	With	Without	–	7KM2200-2EA40-1HA1	–	–
				Without	Without	–	7KM2200-2EA40-1DA1	–	–
			Modbus TCP	With	With	–	7KM2200-2EA40-1JB1	–	–
				–	Without	–	7KM2200-2EA40-1JA1	–	–
				Without	Without	–	7KM2200-2EA40-1EA1	–	–
				–	–	–	–	–	–

Further technical specifications

		7KM1020-..	7KM2200-..	7KM3200-..	7KM3120-0..	7KM3120-1..	7KM3120-2..
Basic data							
Installation		Front mounting	DIN rail		Front mounting		
Mounting width		–	6 MV		–		
Control panel instrument		96 × 96 mm	–		96 × 96 mm		
External auxiliary voltage	50/60 Hz AC	100 ... 250 V	–	90 ... 276 V	100 ... 250 V ±10%	–	100 ... 250 V ±10%
	DC	110 ... 250 V ±10%	–	110 ... 275 V	110 ... 250 V ±10%	24 ... 60 V ±20%	–
Measuring inputs							
Transformer connection	Secondary input current I_e	x/1 A or x/5 A					
Direct connection	Input voltage U_e 3 50/60 Hz AC	400/230 V			690/400 V		400/230 V
	Rated current I_n	–	65 A	–			

¹⁾ Additional AC/DC wide-range power supply as an auxiliary power supply

²⁾ From 01/2025 universal power supply unit

³⁾ Without binary modules



7KM PAC3220	7KM PAC4200	7KM PAC4220	7KM PAC5200	SICAM Q100 new	SICAM Q200 new
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
7KM3220-2BA01-1JA0 ¹⁾ new	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
7KM3220-0BA01-1DA0	7KM4212-0BA00-3AA0	7KM4220-0BA01-1EA0	7KM5412-6BA00-1EA2	7KG9501-0AA01-2AA1	–
–	–	–	–	7KG9501-0AA31-2AA1	7KG9711-0AA10-0BB0 ^{2) 3)} 7KG9711-0JJ10-0BB0 ²⁾
–	–	–	7KM5412-6CA00-1EA8	–	–
7KM3220-1BA01-1EA0	7KM4211-1BA00-3AA0	7KM4220-1BA01-1EA0	–	–	–
–	–	–	–	–	–
–	7KM4212-0BA00-2AA0	–	–	–	–
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7KM3220-0..	7KM3220-1..	7KM3220-2..	7KM4212-..	7KM4211-..	7KM4220-0..	7KM4220-1..	7KM5412-..	Q100	Q200
Front mounting							Front mounting/DIN rail	Front mounting/DIN rail (optional)	Front mounting
–								96 mm	192 mm
96 × 96 mm									96 × 192 mm
100 ... 250 V ±10%	–	100 ... 250 V ±10%	95 ... 240 V ±10%	–	95 ... 250 V ±10%	–	110 ... 230 V ±10%	24 ... 240 V	100 ... 240 V
100 ... 250 V ±10%	24 ... 60 V ±20%	–	110 ... 340 V ±10%	22 ... 65 V ±10%	110... 270 V ±10%	24 ... 48 V ±25%	24 ... 250 V ±10%	24 ... 240 V	100 ... 240 V
x/1 A or x/5 A									
690/400 V		400/230 V	690/400 V	500/289 V	690/400 V				
–									

7KM PAC measuring devices

Accessories

7KM PAC1020
7KM PAC3100
7KM PAC3120
7KM PAC3200
7KM PAC3220
7KM PAC4200
7KM PAC4220

7KM PAC TMP2 DIN-rail adapter



- Two-tier adapter for mounting a measuring device on a DIN rail
- Front display
- For manual intervention

7KM9900-0XA00-0AA0

7KM PAC TMP mounting plate



- Adapter for mounting a measuring device on DIN rail
- Display faces backwards towards DIN rail
- Readout and evaluation of measurements solely via mains operation

7KM9900-0YA00-0AA0

Compact holder



- Device holder for 7KM PAC1020/3100/3120/3200/3220/4200/4220
- 10 holders for 5 PAC devices
- For seamless side-by-side mounting of the devices (without spaces)

7KM9900-0GA00-0AA0

7KM PAC3100
7KM PAC3200
7KM PAC4200

7KM PAC3120
7KM PAC3220
7KM PAC4220

Spare parts for 7KM PAC



- Spare parts comprising:
 - Device holders for panel mounting (2X)
 - Note:** can also be used for 7KM PAC3120/3220
 - Screw terminal for connection of voltage inputs
 - Screw terminal for connection of current inputs
 - Terminal block inputs/outputs for 7KM PAC3100/4200
 - Terminal block inputs/outputs for 7KM PAC3200
 - RS485 terminal blocks for 7KM PAC3100

7KM9900-0SA00-0AA0

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- Spare part package comprising:
 - Device holders for panel mounting

– 7KM9900-0SA00-0AA0

7KM PAC2200
7KM PAC2200CLP
7KM PAC2200 MID
7KM PAC3200T

SENTRON PROFINET Proxy SPP2000



- Proxy for transition from Modbus TCP-capable measuring devices to PROFINET IO. Connection of up to 8 devices from the PAC2200, PAC2200CLP, PAC2200 MID and PAC3200T product ranges
- PROFINET Conformance Class C
- Two switched ports
- Integration in TIA by means of GSDML file

7KM9300-0PP20-0AA0

Expansion and communication modules

		7KM PAC3220 7KM PAC4200 7KM PAC4220	COM100/800 (3VA)
7KM Switched Ethernet PROFINET communication module			
	• Latest PROFINET switching properties • S2 system redundancy for operation in H systems • CiR Configuration in Run • Firmware update via the modules for PAC4200 and PAC3220		
		7KM9300-0AE02-0AA0	
7KM PROFIBUS DP communication module			
		7KM9300-0AB01-0AA0	
7KM RS485 communication module			
		7KM9300-0AM00-0AA0 ¹⁾	
7KM PAC 4DI/2DO expansion module			
		7KM9200-0AB00-0AA0	–
7KM PAC I(N), I(Diff), analog expansion module			
	• To add the following functions to the measuring inputs: – N conductor measurement – Two analog inputs, also for measuring non-electrical quantities such as temperature, water or air pressure – Residual current measurement via type A or type B summation current transformers		
		7KM9200-0AD00-0AA0	–

¹⁾ Suitable for 7KM PAC4200/4220 (especially for the Modbus TCP/RTU Gateway)

Residual-current transformers for 7KM PAC I(N), I(Diff), analog expansion module, [from page 11/1](#)