SENTRON PAC Power Monitoring Devices for All Measuring Tasks

The compact and high-performance power monitoring devices SENTRON PAC detect the power values for electrical feeders or individual consumers. Furthermore, they provide important measured values for assessing the system state and the power quality. Thanks to their integrated communication interface as standard, these power monitoring devices represent the perfect basis for efficient power management.

The advantages at a glance:

- Easy mounting and commissioning
- Easy operation via four function keys and plain text displays
- Multiple and global applicability (IP65, multi-lingual text displays, international approvals)
- Easy connection to various systems via integrated communication interface
- Various monitoring and control functions via digital inputs and outputs
- Compact design

Power Management

Answers for industry.

SIEMENS

Strong Partners for Industry and Trade

The power monitoring devices SENTRON PAC show when, where and how much energy is being used.

SENTRON PAC3100 – the cost- effective device for digital measurement
SENTRON PAC3200 – the specialist for precise energy measurement
SENTRON PAC4200 – the expert for communication and monitoring

Function overview

		PAC3100			PAC3200			PAC4200		
Number of variables		>30			> 50			> 200		
Basic variables	E.g. voltage, current, power, power values, frequency, power factor (min./max. values)	•			•			•		
Extended variables	E.g. THD, asymmetry for current and voltage	–			•			•		
	E.g. phase angle, phase displacement angle, harmonics for voltage and current	–			–			•		
Power detection	Meters (import and export) for apparent, active, reactive power	–	•	•	•	•	•	•	•	•
	Measuring accuracy class IEC 62053 active, reactive power	1	3		0.5 S	2		0.2 S	2	
	Load profile recording with time stamp	–			–			•		
Monitoring functions	Operating hours counter	–			•			•		
	Max. number limit values	–			6			12		
	Boolean logic for limit values / inputs	–	–		•	–		•	•	
	Event recording with time stamp	–			–			•		
System integration and communication	Ethernet interface (Modbus TCP)	–			10 Mbit/sec			10/100 Mbit/sec		
	RS485 (Modbus RTU)	Integrated			Optional			Optional		
	PROFIBUS DP (V1)	–			Optional			Optional		
	Integrated gateway: Ethernet <-> RS485 (Modbus)	–			–			•		
	Number of digital inputs / digital outputs	2	2		1	1		2	2	
Dimensions	W x H x D (in mm)	96 x 96 x 56			96 x 96 x 56			96 x 96 x 82		
	Installation depth: PAC / PAC with expansion module (in mm)	51	–		51	73		77	99	

Selection data

Power monitoring devices	U_{AUX}	
SENTRON PAC3100 with AC/DC wide-voltage power supply unit and screw terminals	100 ... 240 V AC ± 10 %, 50/60 Hz 110 ... 250 V DC ± 10 %	7KM3133-0BA00-3AA0
SENTRON PAC3200 with AC/DC wide-voltage power supply unit and screw terminals	95 ... 240 V AC ± 10 %, 50/60 Hz 110 ... 340 V DC ± 10 %	7KM2112-0BA00-3AA0
SENTRON PAC3200 with DC extra-low-voltage power supply unit and screw terminals	22 ... 65 V DC ± 10 %	7KM2111-1BA00-3AA0
SENTRON PAC4200 with AC/DC wide-voltage power supply unit and screw terminals	95 ... 240 V AC ± 10 %, 50/60 Hz 110 ... 340 V DC ± 10 %	7KM4212-0BA00-3AA0
Expansion modules		
PAC PROFIBUS DP (for PAC3200, PAC4200)	DPV1: Up to 12 Mbit/sec	7KM9300-0AB00-0AA0
PAC RS485 (for PAC3200, PAC4200)	Modbus RTU up to 38.4 kBd	7KM9300-0AM00-0AA0

Further information is available on the Internet at http://www.siemens.com/powermanagementsystem or in the LV1 catalog.

Siemens AG
Industry Sector
Low-Voltage Controls and Distribution
Partner of the electrical trade
P.O. Box 48 48
90026 NÜRNBERG
GERMANY

www.siemens.com/sentron

Subject to changes without prior notice 07/09
Order No.: E20001-A960-M102-X-7600
Dispo 18101
10805938 EGCD.52.9.06 SB 070910.0
Printed in Germany