

DPM27/E

Three phase 27 channel smart energy meter



SUMMARY

- 12 DIN design
- Smart communications
- Plug & play installation
- Embedded webinterface

FEATURES

Versatile compact 27 channel energy meter. Just 12 DIN units wide makes it the ideal device for integration and metering in a distribution panel.

This meter is equipped with a LDC-display for local read-out. This will help installers to verify the correctness of the wiring to the CTs during the installation process, which saves precious time.

The DPM27/E can be connected to closed or split core current transformers up to 63A per channel, or up to 1200A per channel with use of a second transformer.

It has an ethernet port as well as databus connectors to offer you a wide range of connectivity options, multiple units may share a common ethernet connection. No need to worry about interfacing to other platforms. The sensor port offers additional sensor connections to environmental sensors or even a residual current sensor.

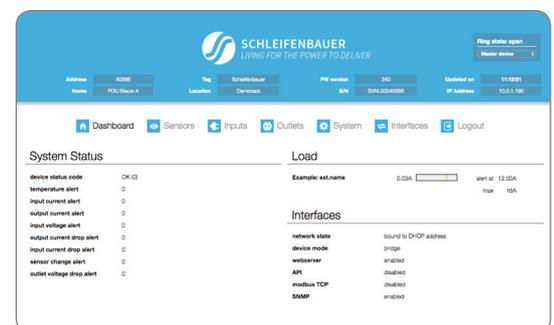


Image: Webinterface



CASE

TYPE	12 DIN ENCLOSURE
DIMENSIONS	212 X 90 X 57 MM
WEIGHT	410 G
CONNECTIONS	CT: 54 X 1 MM2 SCREW TERMINALS N, L1, L2, L3: 4 X 2,5 MM2 SCREW TERMINALS 2 X DATA BUS (RJ45), ETHERNET (RJ45), SENSOR (RJ12), USB
BUTTONS	PAGE LEFT AND RIGHT, RESET
IP RATING	IP20
FIRE RESISTANCE CLASS	UL94-V2

DISPLAY

TYPE	BACKLIT LCD
RESOLUTION	64 X 128 PIXELS, MONOCHROME
LEDS	LINK/ACT LED; POWER ACTIVITY LED

SENSOR PORT

DIGITAL SENSOR PORT	DIGITAL TEMPERATURE / HUMIDITY SENSOR RESIDUAL CURRENT SENSOR CONNECTS TWO DRY SWITCH CONTACTS
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COMMUNICATIONS PORTS

RS485 DATA BUS	2 X DAISY CHAINABLE 115KBPS SERIAL DATA BUS PORTS
ETHERNET PORT	10/100MB ETHERNET PORT
PROTOCOLS	IPV6, SNMP V1, V2C, V3, MODBUS, HTTP, API EXPANDABLE BY FIRMWARE UPGRADES

OPERATING CONDITIONS

TEMPERATURE	0 TO 55° C
HEIGHT	-30 TO 2000M
RELATIVE HUMIDITY	10 TO 90% NON CONDENSING
POLLUTION CLASS	2
INSTALLATION CATEGORY	III
MEASUREMENT CAT.	III
PROTECTION CLASS	II
WORKING CONDITIONS	CONTINUOUS

ELECTRICAL ENVIRONMENT

VOLTAGE	THREE-PHASE 3 X 230/400V+N, SINGLE-PHASE 120..230V+N, (+/-10%)
SYSTEM	THREE-PHASE: FOUR-WIRE STAR; EARTHED NEUTRAL, THREE-PHASE: SINGLE-PHASE: TWO-WIRE; EARTHED END OF PHASE
FREQUENCY	50..60HZ

POWER CONSUMPTION

POWER SUPPLY	MAX 5 WATT
VOLTAGE MEASUREMENT CIRCUIT	MAX 0.5 VA AND 0.1W
CURRENT MEASUREMENT CIRCUIT	MAX 0.07 VA

MEASUREMENTS

UPDATES	1 MEASUREMENT PER 3 SEC.
RMS SAMPLING FREQUENCY	26 KHZ
VOLTAGE	85 TO 265 V AC
CURRENT, VIA STANDARD 1:2500 CT	20MA TO 63A
CURRENT, VIA ADDITIONAL 1200/5 CT	3A TO 1200A
POWER FACTOR	0 TO 100%
KWH TOTAL	0 TO 16777215
KWH SUBTOTAL (RESETTABLE)	0 TO 16777215

ACCURACY

VOLTAGE	± 1,5% (100 TO 240 V)
CURRENT	± 1,5% (0,5 A TO 32 A)
ENERGY	± 1,5%, IEC62053-21 ACCURACY CLASS 2

STANDARDS CONFORMANCE

2006/95/EC	LOW VOLTAGE DIRECTIVE
2004/108/EC	ELECTROMAGNETIC COMPATIBILITY DIRECTIVE
EN 61010-1	ELECTRICAL SAFETY
IEC 60947-1	4KV IMPULSE WITHSTAND VOLTAGE
ROHS2	FULLY COMPLIANT



SCHLEIFENBAUER
LIVING FOR THE POWER TO DELIVER

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