



PRM44 with Skalar.pro

Pulse recording with Skalar.pro

With the extension module PRM44, Skalar.pro continues the success story of its predecessor – with the pulse recording module (PRM) you are able to process and record energy consumption.

Furthermore, you can send switching commands and request univalent states. PRM44 provides four inputs that can be used as status inputs or pulse counter inputs. The electrical circuitry complies with an S0 interface in accordance with DIN 43864. PRM44 also provides four configurable PhotoMOS outputs for control purposes to switch DC and AC voltages.

In detail

- Reproduction of meter readings by means of pulses
- Processing and recording of energy consumption
- Output of switching commands

The pulse recording module (PRM) provides pulse inputs to replicate meter readings by means of energy-proportional pulses. This way the device records real-time load profiles (not calibrated) providing consumption values. You may also configure signalling inputs.

Energy consumption or flow rates are recorded by means of pulse interfaces in accordance with DIN 43864; values are evaluated by means of the newly created measurand ‚Time‘. Load profiles are recorded with a measurement period duration of 5, 10, 15, 20, 30 or 60 minutes. Values with a measurement period duration of up to one minute can be read to monitor plants online.

General

Recording capacity for load profiles:	54 days for each input
Data preservation with double layer capacitor:	minimum 10 days

Communication Parameters for internal serial interface:	character format 7E1 start baud rate 300 bps baud rate after negotiation max. 4,800 bps
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Clock drift device clock PRM44:	typical 5 ppm, less than 150 ppm within the complete temperature range
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Power reserve device clock PRM44:	Minimum 10 days
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Inputs/Outputs

Status inputs and pulse inputs extension module PRM44

Type:	active; prepared for connection of external passive contacts
Open circuit voltage:	13 V
Short-circuit current:	12 mA
Burden resistance max.:	1 kOhm
Extraneous voltage protection:	< 30 V

Switching outputs extension module PRM44

Type:	isolated electronic PhotoMOS relay outputs
Maximum contact voltage:	265 V AC / 375 V DC
Maximum switching current:	100 mA
Maximum on resistance:	16 Ohm

Power supply output extension module PRM44 (DCOUT#2)

Type:	switchable, can be configured via software
DC voltage:	+ 24 V
Maximum output current:	50 mA
Insulation resistance:	no galvanic separation to device electronics
Cable length:	up to 3 m