

PQM-EM-F CURRENT MEASURING EXTENSION MODULE FOR PQM-F ANALYZERS



- Allows constructing a modular power monitoring system
- Provides structured records
- Cost effective solution

GENERAL DESCRIPTION

In case of branching from busbars there is a need for measuring currents on all the branches. The PQM-F33 device can be completed by using the PQM-EM-F34 extension module, that allows 4x3-phase additional current measurement channels beyond the original capabilities of the base device. Even 5 modules can be connected via an RS-485 bus, providing excellent flexibility. The collected data are available in the database under the ID and GNSS location of the base PQM.

TECHNICAL SPECIFICATIONS

Current measurement

	PQM-EM-F34
Number of 3-phase current measurement channels	4
Measurement range [A]	0...6000 ⁽¹⁾
Measurement accuracy [%]	±0.5 ⁽²⁾
RMS averaging period [min]	1 or 1...10 ⁽³⁾
Measurement sample rate [Hz]	6400
Overload capacity [kA]	~20 (1000 ms)
Measuring harmonics	up to 50 th harmonic
Type of current sensor	Rogowski-coil or current transformer
Current sensor connection	Connector

Communication parameters

Type of interface to the base device	RS-485
Maximum number of extension modules connected to the base device	5
Maximum total data cable length between base device and last extension module [m]	15

(1) Depends on the current transformer

(2) Accuracy without current transformers or Rogowski coils!

(3) Depends on the options ordered with the base device.

Specifications are subject to change without notice!

General parameters

Powering source	Base device (via data cable)
Power consumption [W]	1
Dimensions (without montage components) [mm]	160x160x90
Phase marking	Coloring
Degree of protection	IP65
Operating temperature range [°C]	-20...+75
Weight [kg]	0.8

ORDERING INFORMATION

P	Q	M	-	E	M	-	A	3	4	-	X
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Length of communication cable	
2	2 meters (default)
3	3 meters
5	5 meters

Hardware options

3 pcs Rogowski-coil set (for measuring 3xL)	PQM-CRFxx-x3 *
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* xx gives in the ordering code the construction and nominal primary current. 30 - 3000 A (standard construction) etc., x gives the cable length.

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