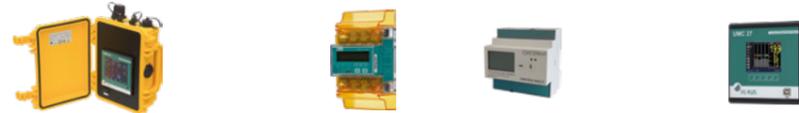


- Standard ○ Optional
- * available soon
- ** DC-500 mode (0 - 500 Hz)
- *** Analogue input (RCM / 0 - 20 mA)



Type PQ PLUS	MMD		CMD 68	CMD EEG-CLP	UMC	
	98RCM	913	MID	MID / PTB-A 50.7	24	27
Supply voltage	230 V variant 24 V variant	100 - 500 V _{AC} 10 - 36 V _{DC}	75 - 500 V _{AC}	230 V / 400 V	-	75 - 500 V _{AC}
Measurement category	CAT III		CAT III	CAT III	CAT III	
Measuring range	3.5 - 1120 V _{LL}	5 - 1530 V _{LL}	230 V / 400 V	20 - 1090 V _{LL}	3.5 - 1120 V _{LL}	
Phase measurement	3U, 4I, 2Ircm		3U, 3I	3U, 3I	3U, 4I	
Current transformer input	333 mV (Rogowski)	1 A (Rogowski)	5 A; 1 A; 100 A	5 A; 1 A		
Frequency	40 - 70 Hz**		50 Hz	40 - 70 Hz**		
Sampling rate	57.6 kHz	28.8 kHz	-	25.6 kHz	57.6 kHz	
Averaging	40 ms; 200 ms	200 ms	-	200 ms	40 ms; 200 ms	
Continuous measurement	•		•	•	•	
Harmonic	1st - 128th	1st - 128th	-	1st - 50th	1st - 128th	
Interharmonic	•		-	-	○ PQ S	
THD-U %	•		-	-	•	
THD-I %	•		-	-	•	
Asymmetry	•		-	-	•	
Flicker (Pst / Plt)	•		-	-	○ PQ S	
Voltage events	•		-	-	○ PQ S	
Oscilloscopes	•		-	-	○ GO	
Class precision U/I	0.1		0.5	0.5	0.1	
Active energy cl.	0.2S		B	0.5S	0.2S	
Digital inputs/outputs	-		- / 1 (2)	- / 1	-	
Relay inputs/outputs	-		-	- / 9	1 / 18	
Analogue inputs/outputs	-		-	-	-	
Temperature input Pt100	-		-	-	-	
Internal temperature measurement	•		-	-	•	
Min/Max memory	•		○	•	•	
Memory size	512 MB		○	3 Jahre	-	512 MB
Clock	•		○	•	-	•
EN 50160	• PQ S	• PQ A	-	-	-	○ PQ S
Residual current	•	○	-	-	-	-
Communication						
RS485	-		○	-	-	•
Ethernet	•		○	-	-	•
USB	•		-	-	•	
Local Bus	•	○	-	-	-	
Web servers	•		○	-	-	•
M bus	-		○	-	-	
Modbus RTU	-		○	-	-	•
Modbus TCP	•		○	-	-	•
MQTT	•	-	-	-	-	•

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Managing Director:
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VAT identification number:
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Weitere Informationen und den aktuellen Katalog finden Sie bei uns im Internet:
<http://www.pq-plus.de>

Date: 2023/12
Subject to technical changes.

Firmware modules

Function extensions for PQ Plus measuring devices. Firmware modules are device and serial number related and can be activated at any time.

PQ S / PQ A: Power Quality in Class A / Class S

PQ S: UMD 97 / UMD 98 / MMD 98 / UMD 911 / UMD 705 / UMD 707 / UMC 27

PQ A: UMD 913 / MMD 913 / MMB 700 / UMD 710

GO: High resolution oscillogram recording

UMD 97 / UMD 98 / MMD 98 / UMD 911 / UMD 913 / MMD 913 / UMD 705 / UMD 707 / UMD 710 / MMB 700 / UMC 27

RCS: Ripple Control Signals

UMD 97 / UMD 98 / MMD 98 / UMD 911 / UMD 913 / MMD 913 / UMD 705 / UMD 707 / UMD 710 / MMB 700 / UMC 27

MM: Modbus Master

UMD 97E / UMD 98 / MMD 98 / UMD 911 / UMD 913 / MMD 913 / UMD 705 / UMD 707 / UMD 710 / MMB 700 / UMC 27

UP: UDP Push

UMD 96EL / UMD 97EL / UMD 97E / UMD 98 / MMD 98 / UMD 911 / UMD 913 / MMD 913 / UMD 705 / UMD 707 / UMD 710 / MMB 700 / UMC 27

IEC104: telecontrol protocol

UMD 97 / UMD 98 / MMD 98 / UMD 911 / UMD 913 / MMD 913 / UMD 707 / UMD 710 / MMB 700 / UMC 27

SH: Supraharmonics

UMD 911 / UMD 913 / UMD 707 / UMD 710 / MMB 700 / UMC 27



ENVIS Software Suite

Energy management and PQ analysis tool

ENVIS



ENVIS is used for processing and analysing the archived measurement data. Whether simple consumption evaluations or the analysis of power quality according to standards. Data sets can be displayed in graphs and tables, or evaluated in the predefined and individually customisable reports. ENVIS is available in the Basic and Base versions.

ENVIS.Daq



ENVIS.Daq is used to configure and manage the universal measurement devices. Live data can also be displayed and checked. The data from the memory can be downloaded to a binary file (export to .xml / .csv) or saved directly to an SQL database.

ENVIS.Online



ENVIS.Online is a system service that regularly reads out the memories of the connected universal measurement devices or retrieves live data and stores it in an SQL database. Reports can be created automatically and sent by e-mail or stored locally. Limit values can be monitored by means of an alarm management system.



PRODUCT PORTFOLIO



Power Quality

Energy management

Residual current measurement

MID-compliant measurement

Power factor correction

