

DATA SHEET ĐỒNG HỒ GIÁM SÁT PQ

Janitza®



UMG 96 PQ-L

Modularly expandable energy measurement device

Type	(UL CERTIFIED)				
	PQ-L	PQ-L-LP	PQ-L-LP	PQ-L-IT	PQ-L-IT
Part number	5236001 ^{*1}	5236021 ^{*1}	5236006	5236005	5236025
Use in three-phase 4-conductor systems with grounded neutral conductor up to max.	347 / 600 V AC (UL) 417 / 720 V AC (IEC)				
Use in three-phase 3-conductor systems ungrounded up to max.	- 600 V AC				
Supply voltage	90-277 V AC; 90-250 V DC ^{*1}				
Three conductor / four conductor (L-N, L-L)	• / •				
Quadrants	4				
Sampling frequency 50/60 Hz	13,67 kHz 13,97				
Meter reading cycle as per PTB-A 50.7	-				
Effective value from periods (50/60 Hz)	10 / 12				
Residual current inputs	-				
Current measuring channels	3*7	3*7	4	3*7	3*7
Thermistor input	-				
Harmonics current V / A	1. – 65.				
Distortion factor THD-U / THD-I in %	•				
Unbalance	-				
Short / long-term flicker	• ^{*14}				
Transients	-				
Short-term interruptions	•				
Accuracy V; A	0.2%; 0.2%				
IEC 61000-4-30	Class S ^{*14}				
Active energy class	0.2S ^{*17}				
Digital inputs	3				
Digital / pulse output	3				
Analog output	1				
Memory for min. / max. values	•				
Memory size / recording duration (according to factory setting)	64 MB / partition A: approx. 45 months, part. B: approx. 20 months				
Clock	•				
Integrated logic	Comparator				
Web server / Email	-				
APPs: Measured value monitor, EN 50160 & IEC 61000-2-4 Watchdog	-				
Fault recorder function	-				
Peak load optimisation	-				
Software for energy management and network analysis	GridVis [®] -Essential				
Interfaces	1				
RS-232	-				
RS-485	•				
USB	-				
D-Sub 9 plug (Profibus)	-				
M-Bus	-				
Ethernet	-				
Modbus RTU	•				
Modbus gateway	-				
Profibus DP V0	-				
Modbus TCP/IP, Modbus RTU over Ethernet	-				
SNMP	-				
OPC UA	-				
BAC net IP	-				
Profinet	-				

^{*1}: Other voltages are also available optionally

^{*7}: With module + 1 current measurement channel

^{*14}: Item no. 5236021 and 5236025

Class S ex works, item no. 5236001 and 5236005 Class S can be activated subsequently

^{*17}: The following applies to item no. 5236006: Class 0.5S (... A/333 mV) and 0.5S for Rogowski coils (... mV/kA).