

Type	UMG 103-CBM (UL certified)	UMG 20CM	Module 20CM-CT6	UMG 604-PRO	UMG 605-PRO	UMG 801	Module 800-CT8-A	Module 800-CT8-LP	Module 800-DI14	UMG 806	UMG 806 modules 806-EC1 806-ED1 806-EI1
Part number	5228001	1401625	1401626	5216202 / 5216201	5216227	5231003	5231230	5231234	5231214	1402025	1402016 / 1402019 / 1402020
Use in three-phase 4-conductor systems with grounded neutral conductor up to max.	277 V / 480 V AC	230 / 400 V AC	Current measurement only	277 / 480 V AC	277 / 480 V AC	347 / 600 V AC (UL) / 480 / 830 V AC (IEC)	Current measurement only	Current measurement only	Digital inputs only	230 / 400 V AC	
Use in three-phase 3-conductor systems ungrounded up to max.	-	-	-	480 V AC	480 V AC	690 V AC	via basic device	via basic device	via basic device	400 V AC	
Supply voltage	-	90 – 276 V AC; 90 – 276 V DC	-	95 – 240 V AC; 135 – 340 V DC ¹⁾	95 – 240 V AC; 135 – 340 V DC ¹⁾	24 V DC, PELV				80 – 270 V AC; 80 – 270 V DC	
Three conductor / four conductor (L-N, L-L)	- / •	• / •	- / •	• / •	• / •	• / •	4	4		• / •	
Quadrants	4	4	4	4	4	4	8.33 kHz	8.33 kHz		4	
Sampling frequency 50/60 Hz	5.4 kHz	20 kHz	60 kHz	20 kHz	20 kHz	51.2 kHz (V) / 25.6 kHz (A)	10 / 12	10 / 12		8 kHz	
Meter reading cycle as per PTB-A 50.7	-	-	-	-	-	-	-	-		-	
Effective value from periods (50/60 Hz)	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	8–80 (max. 10 modules)	8–80 (max. 10 modules)		10 / 12	
Residual current inputs	-	20 ¹¹⁾	6 ¹¹⁾	-	-	4 ¹⁴⁾	-	-		1	
Current measuring channels	3	20 ¹¹⁾	6–96 (max. 16 modules) ¹¹⁾	4	4	8	-	-		4	4 ¹²⁾
Thermistor input	-	-	-	1	1	4 ¹⁴⁾	8–80 (max. 10 modules)	8–80 (max. 10 modules)		1	
Harmonics current V / A	1. – 40.	1. – 63.	1. – 63.	1. – 40.	1. – 63.	1.–127. / 1.–63.	1., 3., 5. ... 15.	1., 3., 5. ... 15.		1. – 31.	
Distortion factor THD-U / THD-I in %	•	•	only THD-I	•	•	•	only THD-I	only THD-I		•	
Unbalance	-	-	-	•	•	•				•	
Short / long-term flicker	-	-	-	•	•	•				-	
Transients	-	-	-	•	•	•				-	
Short-term interruptions	-	-	-	•	•	•				-	
Accuracy V; A	0.2%; 0.5%	1%; 1%	-; 0.5%	0.2%; 0.25%	0.2%; 0.25%	0.2%; 0.2%	0.5%	0.2%		0.2%; 0.2%	
IEC 61000-4-30	-	-	-	-	-	Class S				-	
Active energy class	0.5S (.../5 A)	1	2	0.5S (.../5 A)	0.5S (.../5 A)	0.2S (.../5 A)	0.5S (.../5 A)	0.5S (.../333 mV)		0.5S (.../5 A)	
Digital inputs	-	-	-	2	2	4	-	-		-	
Digital / pulse output	-	2	-	2	2	4	-	-	14	1	4
Analog output	-	-	-	-	-	1	-	-		-	2 2
Memory for min. / max. values	•	•	•	•	•	•	⁹⁾	⁹⁾	⁹⁾	⁹⁾	
Memory size / recording duration (according to factory setting)	4 MB / approx. 3 months	768 KB / approx. 1 month	Only via UMG 20CM	128 MB / approx. 4797 months	128 MB / approx. 2.37 months	4 GB / no factory setting	⁹⁾	⁹⁾	⁹⁾	4 MB	
Clock	•	•	•	•	•	•	⁹⁾	⁹⁾	⁹⁾	•	•
Integrated logic	Comparator	Current limit values per channel	Current limit values per channel	Jasic® (7 Prg.)	Jasic® (7 Prg.)	-	-	-	-	-	• / -
Web server / Email	-	-	-	• / •	• / •	-	-	-	-	-	-
APPs: Measured value monitor, EN 50160 & IEC 61000-2-4 Watchdog	-	-	-	-	-	-	-	-	-	-	-
Fault recorder function	-	-	-	-	-	-	-	-	-	-	-
Peak load optimisation	-	-	-	• ²⁾	• ²⁾	• ²⁾	-	-	-	-	-
GridVis® software for energy management and network analysis	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential	GridVis®-Essential
GridVis® items	1	1	1	1	1	1	1	1	1	1	0
RS-232	-	-	-	•	•	•	-	-	-	-	-
RS-485	•	•	Only via UMG 20CM	•	•	•	⁹⁾	⁹⁾	⁹⁾	•	
USB	-	-	-	-	-	-	-	-	-	-	-
D-Sub 9 plug (Profibus)	-	-	-	-	-	-	-	-	-	-	-
M-Bus	-	-	-	-	-	-	-	-	-	-	-
Ethernet	-	-	-	•	•	2	⁹⁾	⁹⁾	⁹⁾	-	•
Modbus RTU	•	•	Only via UMG 20CM	•	•	•	⁹⁾	⁹⁾	⁹⁾	-	•
Modbus gateway	-	-	-	•	•	• ¹⁰⁾	-	-	-	-	•
Profibus DP V0	-	-	-	•	•	-	⁹⁾	⁹⁾	⁹⁾	-	•
Modbus TCP/IP, Modbus RTU over Ethernet	-	-	-	•	•	•	⁹⁾	⁹⁾	⁹⁾	-	•
SNMP	-	-	-	•	•	•	-	-	-	-	•
OPC UA	-	-	-	•	•	•	-	-	-	-	•
BACnet IP	-	-	-	• ²⁾	• ²⁾	•	⁹⁾	⁹⁾	⁹⁾	-	•
Profinet	-	-	-	-	-	-	-	-	-	-	•

LOAD MANAGEMENT SOLUTIONS

Load management for the energy and mobility transition
Modern load management is becoming increasingly important in the context of the energy and mobility transition. Intelligent load management facilitates the avoidance of production downtimes, the development of energy strategies and the reduction of costs.

Load management engineering
Janitza electronics supports you from the analysis of your system environment to the integration of a modern load management approach. Let us assist you in optimizing your systems to achieve your energy goals. With our cross-manufacturer networking, we can integrate your existing production environment and ensure transparency.

- Your advantages at a glance:**
- Optimize your energy supply
 - Detect and reduce peak loads
 - One overarching system for all applications
 - A uniform data basis for cost analysis
 - Future-proof thanks to a wide range of expansion options

- Your savings potential in figures:**
- Reduction of expensive peak loads by up to 40%
 - Reduction of charging costs for electric cars by up to 50%
 - Increase the efficiency of your PV system in conjunction with an electric storage unit by up to 100%



• : Included
- : Not included

¹⁾ Other voltages are also available optionally
²⁾ Option
³⁾ Possible combinations of inputs and outputs:
a) 5 digital outputs
b) 2 digital outputs and 3 digital inputs
⁴⁾ Combined function: Optional analog / temperature / residual current input
⁵⁾ 2 pulse outputs
⁶⁾ SNMP for internal Profinet communication only
⁷⁾ With module + 1 current measurement channel
⁸⁾ MID certified
⁹⁾ On the basic device
¹⁰⁾ To query the slave devices
¹¹⁾ Combined function: Optionally operating or residual current
¹²⁾ These are 4...20 mA signal inputs
¹³⁾ 289 / 500 V AC for MID+ models
¹⁴⁾ Item no. 5236021 and 5236025 Class S ex works, item no. 5236005 and 5236005 Class S can be activated subsequently
¹⁵⁾ Partition A: approx. 106 months, partition B: approx. 26 months
¹⁶⁾ approx. 2 months
¹⁷⁾ The following applies to item no. 52.36.006: Class 0.5S (... A/333 mV) and 0.5S for Rogowski coils (... mV/kA).

Comment: For detailed technical information, please refer to the respective operating manuals and the Modbus address lists.