



Type		UMG 103-CBM <small>(UL certified)</small>	UMG 20CM	Module 20CM-CT6	UMG 604-PRO <small>(UL certified)</small>	UMG 605-PRO <small>(UL certified)</small>	UMG 801 <small>(UL certified)</small>	Module 800-CT8-A <small>(UL certified)</small>	UMG 806	UMG 806 Modules 806-EC1 806-ED1 806-EI1
Part number		52.28.001	14.01.625	14.01.626	E 52.16.202	EP 52.16.201	52.31.001	52.31.201	14.02.025	14.02.016 14.02.019 14.02.020
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	230 / 400 V AC	
Use in three-phase 3-conductor systems ungrounded up to max.		-	-	-	480 V AC	480 V AC	690 V AC		400 V AC	
Supply voltage		-	90 – 276 V AC; 90 – 276 V DC	-	95 – 240 V AC; 135 – 340 V DC ¹¹	95 – 240 V AC; 135 – 340 V DC ¹¹	24 – 48 V DC, PELV		80 – 270 V AC; 80 – 270 V DC	
Three conductor / four conductor (L-N, L-L)		- / •	• / •	- / •	• / •	• / •	• / •		• / •	
Quadrants		4	4	4	4	4	4	4	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)	8.33 kHz	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	10 / 12	10 / 12	
Residual current inputs		-	20 ^{*11}	6 ^{*11}	-	-	4 ^{*4}	1	1	
Current measuring channels		3	20 ^{*11}	6–96 (max. 16 modules) ^{*11}	4	4	8	8–80 (max. 10 modules)	4	4 ^{*12}
Thermistor input		-	-	-	1	1	4 ^{*4}	1	1	
Harmonics current V / A		1st – 40th	1st – 63th	1st – 63th	1st – 40th	1st – 63th	1st–127th / 1st–63th	1st, 3rd, 5th ... 15th	1st – 31th	
Distortion factor THD-U / THD-I in %		•	•	THD-I only	•	•	•	THD-I only	•	
Unbalance		-	-	-	•	•	•	•	•	
Short / long-term flicker		-	-	-	-	-	•	-	-	
Transients		-	-	-	> 50 µs	> 50 µs	•	•	-	
Short-term interruptions		-	-	-	•	•	•	-	-	
Accuracy V; A		0.2%; 0.2%	1%; 1%	– ; 0.5%	0.2%; 0.25%	0.2%; 0.25%	0.2%; 0.2%	0.5%	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 (.../5 A)	
Digital inputs		-	-	-	2	2	4	-	-	4
Digital / pulse output		-	2	-	2	2	4	1	1	2
Analog output		-	-	-	-	-	1	-	-	2
Memory for min. / max. values		•	•	•	•	•	•	*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. 47.97 months	128 MB / approx. 2.37 months	4 GB / no factory setting	*9	4 MB	
Clock		•	•	Only via UMG 20CM	•	•	•	*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	-	-	-	
Software for energy management and network analysis		GridVis® Essentials	GridVis® Essentials	GridVis® Essentials	GridVis® Essentials	GridVis® Essentials	GridVis® Essentials	GridVis® Essentials	GridVis® Essentials	GridVis® Essentials
Interfaces										
RS-232		-	-	-	•	•	-	-	-	
RS-485		•	•	Only via UMG 20CM	•	•	•	*9	•	
USB		-	-	-	-	-	•	-	-	
D-Sub 9 plug (Profibus)		-	-	-	-	•	-	-	-	
M-Bus		-	-	-	-	-	-	-	-	
Ethernet		-	-	-	-	•	2	*9	-	•
Protocols										
Modbus RTU		•	•	Only via UMG 20CM	•	•	•	*9	•	•
Modbus gateway		-	-	-	•	•	•*10	-	-	•
Profibus DP V0		-	-	-	-	•	-	-	-	•
Modbus TCP/IP, Modbus RTU over Ethernet		-	-	-	•	•	ModbusTCP/IP	*9	-	•
SNMP		-	-	-	•	•	-	-	-	•
OPC UA		-	-	-	-	-	-	*9	-	
BACnet IP		-	-	-	•*2	•*2	•	-	-	
Profinet		-	-	-	-	-	-	-	-	

• : 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 Applies to part no. 52.36.021 and 52.36.025

*15 Partition A: approx. 106 months, partition B: approx. 26 months

*16 approx. 2 months

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

