

TYPE	DMG 200	DMG 210	DMG 300	DMG 700	DMG 800	DMG 900
AUXILIARY SUPPLY						
Rated voltage Us	100-240 VAC 110-250VDC			100-440 VAC 110-250VDC		
Operating voltage range	85-264 VAC 93.5-300VDC			90-484 VAC 93.5-300VDC		
Frequency range	45-66 Hz			45-66 Hz		
Power consumption	3.2VA 1.1W	4VA 1.4W	3.2VA 1.3W	3.9VA 3.4W max		3.9VA 3.4W
VOLTAGE INPUT						
Type of input	Three phase+neutral			Three phase+neutral		Three phase+ neutral+GND
Maximum rated voltage Ue	690VAC(L-L) 400VAC(L-N)			690VAC(L-L) 400VAC(L-N)		
Measurement range	20-830VAC(L-L) 10-480VAC(L-N)			20-830VAC(L-L) 10-480VAC(L-N)		20-830VAC(L-L) 10-480VAC(L-N) 1-480VAC(N-GND)
Frequency range	45-66 Hz			45-66 Hz		45-66 Hz/360-440 Hz
Method of measuring	True RMS value			True RMS value		True RMS value
Method of connection	Single, two, three phase with or without neutral or balanced three-phase system.			Single, two, three phase with or without neutral or balanced three-phase system.		
CURRENT INPUT						
Rated current Ie	5A		1A or 5A	5A	1A or 5A	
Measurement range	0.01-6A		1A scale: 0.01...1.2A 5A scale: 0.01...6A	0.01-6A	1A scale: 0.01...1.2A 5A scale: 0.01...6A	1A scale: 0.01...1.2A 5A scale: 0.01...6A
Method of measuring	True RMS value			True RMS value		
Overload capacity	+20% Ie			+20% Ie		+100% Ie
Overload peak	50A for 1 second			50A for 1 second		
SUPPLY CIRCUIT/VOLTAGE MEASUREMENTS CONNECTIONS						
Type of terminal	Fixed			Fixed		
Conductor section min-max	0.2...4mm ² (24/12AWG)			0.2...2.5mm ² (24-12AWG)		
CTightening torque (maximum)	0.8Nm (7lbin)			0.5Nm (4.5lbin)		
CURRENT MEASUREMENT CIRCUIT (RS485 CONNECTION FOR DMG210 Only)						
Type of terminal	Fixed			Fixed		
Conductor section min-max	0.2...2.5mm ² (24/12AWG)			0.2...4mm ² (26-10AWG)		
Tightening torque (maximum)	0.44Nm (4lbin)			0.8Nm (7lbin)		
INSULATION VOLTAGE						
Rated insulation voltage Ui	690VAC			690VAC		
Rated impulse withstand voltage Uimp	9.5kV			9.5kV		
Power frequency withstand voltage	5.2kV			5.2kV		
ACCURACY						
VOLTAGE INPUT	0.5%(50...830VAC)	0.2%(50...830VAC)		0.5%(50...830VAC)	0.2%(50...830VAC)	
Current	0.5%(0.1...1.1In)	0.2%(0.1...1.1In)		0.5%(0.1...1.1In)	0.2%(0.1...1.1In)	
Active Energy	Class1	Class0.5S		Class1 IEC/EN 62053-21	Class0.5S IEC/EN 62053-22	
AMBIENT CONDITIONS						
Operating temperature	-20...+60 °C			-20...+60 °C		
Storage temperature	-30...+80 °C			-30...+80 °C		
Relative humidity	<90%			<90%		
Maximum pollution degree	Degree2			Degree2		
Measurement class	3			3		
HOUSING						
Version	4 modules (DIN 43880)			Flush mount per IEC 61554		
Material	Polyamide RAL7035			Polyamide RAL7035		
Degree of protection	IP40 on front IP20 terminals			IP54 on front IP20 terminals		IP65 on front IP20 terminals

TYPE	Single Phase		Three Phase	
	DME D100 T1	DME D120 T1	DME D300 T2	DME D310 T2
VOLTAGE				
Nominal voltage Us	220-240 VAC		220...240VAC (L-N) 380...415VAC (L-L)	
Operating voltage range	187-264 VAC		187...264VAC (L-N) 323...456VAC (L-L)	
Frequency range	45-66 Hz		45-66 Hz	
Power consumption	6.6VA 0.45W		6.6VA 0.15W	
CURRENT INPUT				
Minimum current(Imin)	0.25A	0.5A	0.5A	0.05A
Max current(Imax)	40A	63A	63A	6A
STATIC OUTPUT				
Pulse number	10 pulses /kWh	Progr. 1-10-100 pulses /kWh	1-10-100-1000 pulses /kWh	Progr. 1-10-100 pulses /kWh
Pulse length	100ms		60 ms for 1000 pulses/kWh 100 ms for other selections	100ms
External voltage	10...30VDC		10...30VDC	
Max current	50mA		50mA	
INSULATION VOLTAGE				
Rated insulation voltage Ui	250mA		250mA	
Rated impulse withstand voltage Uimp	6kV		6kV	
Power frequency withstand voltage	4kV		4kV	
SUPPLY/MEASURE CONNECTION				
Terminal type	Fixed		Fixed	
Number of terminals	4	3 for Aux supply / measure	7 for Aux supply / measure	4 for Aux supply / measure 2 for tariff input selection
Cable cross section(min...max)	1.5...10mm ² (15...7AWG)	2.5...16mm ² (13-5AWG)	2.5...16mm ² (13-5AWG)	0.2...4mm ² (24...12AWG)
Tightening torque	1.5Nm(13.3lbin)	2Nm(17.7bin)	2Nm(17.7bin)	0.8Nm(7lbin)
PULSE OUTPUT CONNECTION				
Terminal type	Fixed		Fixed	
Number of terminals	2	2	4	6 for CT connection 4 for pulse output connection
Cable cross section(min...max)	0.2...4mm ² (24...12AWG)	0.5...4mm ² (20-11AWG)	0.2...1.3mm ² (24...16AWG)	0.2...2.5mm ² (24...12AWG)
Tightening torque	0.8Nm(7lbin)	1.3Nm(12.1lbin)	0.15Nm(1.73lbin)	0.44Nm(4lbin)
ACCURACY				
Active Energy(IEC/EN 62053-21)	Class1		Class1	
AMBIENT CONDITIONS				
Operating temperature	-25...+55 °C		-25...+55 °C	
Storage temperature	-25...+70 °C		-25...+70 °C	
Relative humidity	<90%		<80%	<90%
Maximum pollution degree	Degree2		Degree2	
Measurement class	3		3	
HOUSING				
Version	1 modules	2 modules	4 modules	
Material	Polyamide RAL7035		Polyamide RAL7035	
Degree of protection	IP40 on front IP20 terminals		IP54 on front IP20 terminals	