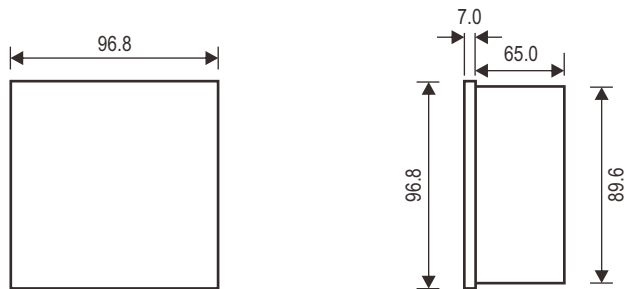




DIMENSIONAL DRAWINGS (mm)



TECHNICAL INFO		EMG10
General	Seven Segment Display	Available
	LCD	-
	Language Support	-
	Battery	-
	Real Time Clock	-
	Password Protection	Available
	Current Transformer Ratio	1-5000
	Voltage Transformer Ratio	1-5000
	Demand Period	1-60 min. Adjust
	Connection Type	3P4W, 3P3W
	Measurement in Quadrants	4
	Number of Measurement in a period	256
	LCD/Display Refresh Period	1 sec
	Networks	TT, TN, IT
Energy Measurement	Phasor Diagram	-
	Signal Waveforms	-
	Min/Max/Demand Values	Available
	Number of Tariffs	1
	Multi Sub-Tariffs (Peak, Day and Off-Peak)	-
Current Measurement Input	1Ø Phase Energy Meters	Available
	3Ø Phase Energy Meters	Available
Voltage Measurement Input	4-Quadrant Reactive Energy Meters	-
	Measurement Range	10mA-6A AC
	Overvoltage Category	300 V Cat II
	Measurement Surge Voltage	2 kV
	Power Consumption	< 0.2 VA
Inputs and Outputs	Intermittent overload	100A for 1 sec
	Sampling Freq.between 45-65Hz	12.8 kHz
	Overvoltage Category	300V Cat III
	Measured Range L-N	1-300 Vrms
	Measured Range L-L	2-500 Vrms
	Measured Frequency Range	45-65 Hz
	Power Consumption	< 0.1 VA
Sampling Freq.between 45-65Hz	12.8 kHz	

TECHNICAL INFO		EMG10		
Power Quality Measurements	Harmonics for current and voltage phases	Up to 31st		
	THD-Voltage in %	Available		
	THD-Current in %	Available		
Other Measurements	Run Hour (Operating time for load in hours)	Available		
	On Hour (Operating time for meter in hours)	Available		
Measurements Accuracy	Int Counter (Number of power interruptions)	Available		
	According to IEC 61557-12	Total Active Power	Class 0.5	
		Total Reactive Power	Class 1	
		Total Apparent Power	Class 0.5	
		Total Active Energy	Class 0.5	
		Total Reactive Energy	Class 2	
		Frequency	Class 0.1	
		Current	Class 0.5	
		Neutral Current (calculated)	Class 0.5	
		Voltage	Class 0.2	
Power factor		Class 0.5		
THDV, THDI	Class 1			
Inputs and Outputs	Alarm Relay Outputs	According to IEC 62053-22	Total Active Energy	Class 0.5S
		According to IEC 62053-23	Total Reactive Energy	Class 2
		Number of outputs	-	
		Type	-	
		Max. Switching Current	-	
Inputs and Outputs	Alarm Relay Outputs	Max. Switching Voltage	-	
		Max. Switching Power	-	

TECHNICAL INFO			EMG10	TECHNICAL INFO			EMG10	
Inputs and Outputs	Digital Inputs	Number of inputs	-	Communication	Protocol		Modbus RTU	
		Minimum Counting Frequency	-		Baud rate		1200-57600 bps adjustable	
		Input Present or Not Isolation Level	-		Parity number		Odd,Even,None	
			-		Stop bit		1	
	Digital Outputs	Number of outputs	-		Mechanical Property	Address		1-247
		Type	-			Isolation		2750V RMS
		Switching Voltage Range	-			Weight (g)		296
		Minimum Switching Frequency	-			Protection Class		IP40 front / IP20 rear
	Analog Outputs	Isolation Level	-			Assembly Type		Panel Mount
		Number of outputs	-			Cable Cross Sections	Supply, Voltage, Current, Relay Outputs	Stranded:
Range of Outputs		-	Solid:	4 mm <sup>2</sup> - 12AWG, 2 x 15 mm <sup>2</sup> - 2 x 16AWG				
0-5V,0-10 V,-5-5 V, -10-10 V,0-20mA, 4-20 mA		-	Digital I/O, RS 485, Analog Output	Stranded:			1.5 mm <sup>2</sup> -16AWG	
Isolation	-	Solid:		1.5 mm <sup>2</sup> -16AWG, 2 x 0.75 mm <sup>2</sup> , 2 x 18AWG				
Supply	Voltage	AC	85-300 V	Ambient Conditions			Operating Temperature	
		DC	85-300 V		Storage Temperature		-30 to +80 °C	
	Consumption	AC	< 6 VA		Relative Humidity (no condensation)		Max.95%	
		DC	< 3 W		300 VAC CAT II ace. to IEC 61010-1		Available	
Frequency		45-65 Hz	EMC-EMI	EN 55011 /AI :2010, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11		Available		
Data Logging with timestamp	Min/Max/ Avg Values	Hourly records		-				
		Daily records		-				
		Monthly records		-				
	Demand Alarm records		-					



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