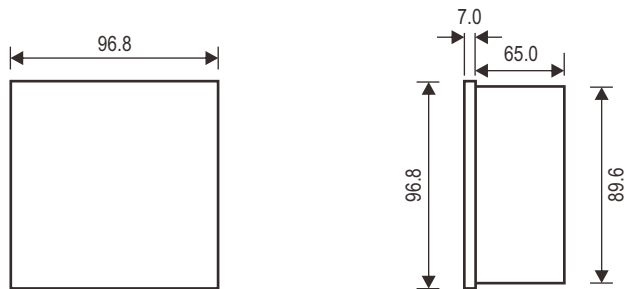




DIMENSIONAL DRAWINGS (mm)



TECHNICAL INFO		EMG10
General	Seven Segment Display LCD	Available
	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
	Phasor Diagram	-
Signal Waveforms	-	
Min/Max/Demand Values	Available	
Energy Measurement	Number of Tariffs	1
	Multi Sub-Tariffs (Peak, Day and Off-Peak)	-
	1Ø Phase Energy Meters	Available
	3Ø Phase Energy Meters	Available
Current 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
	Intermittent overload	100A for 1 sec
Voltage Measurement Input	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	-	
	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	-
		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	-		Address	1-247	
		Type	-		Isolation	2750V RMS	
		Switching Voltage Range	-	Mechanical Property	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:	2,5 mm <sup>2</sup> -14AWG
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	-20 to +70 °C	
		DC	85-300 V		Storage Temperature	-30 to +80 °C	
	Consumption	AC	< 6 VA		Relative Humidity (no condensation)	Max.95%	
		DC	< 3 W		EMC-EMI	300 VAC CAT II ace. to IEC 61010-1	Available
Frequency		45-65 Hz	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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