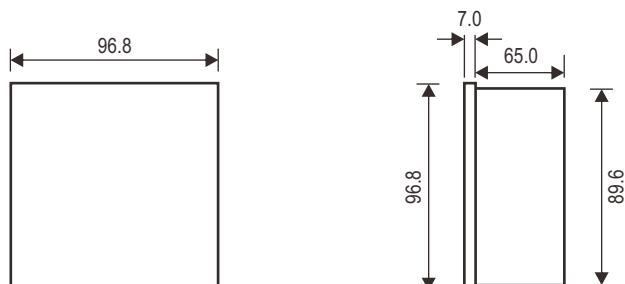



DIMENSIONAL DRAWINGS (mm)


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
	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		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
	Int Counter (Number of power interruptions)		Available
Measurements Accuracy	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	
	According to IEC 62053-22	Total Active Energy	Class 0.5S
Acceding to IEC 62053-23	Total Reactive Energy	Class 2	
Inputs and Outputs	Alarm Relay Outputs	Number of outputs	-
		Type	-
		Max. Switching Current	-
		Max. Switching Voltage	-
		Max. Switching Power	-

TECHNICAL INFO			EMG10
Inputs and Outputs	Digital Inputs	Number of inputs	-
		Minimum Counting Frequency	-
		Input Present or Not	-
		Isolation Level	-
	Digital Outputs	Number of outputs	-
		Type	-
		Switching Voltage Range	-
		Minimum Switching Frequency	-
	Analog Outputs	Isolation Level	-
		Number of outputs	-
		Range of Outputs 0-5V, 0-10 V, -5-5 V, -10-10 V, 0-20mA, 4-20 mA	-
Supply	Voltage	AC	85-300 V
		DC	85-300 V
	Consumption	AC	< 6 VA
		DC	< 3 W
Data Logging with timestamp	Min/Max/ Avg Values	Hourly records	-
		Daily records	-
		Monthly records	-
	Demand		-
	Alarm records		-

TECHNICAL INFO			EMG10
Communi- cation	Protocol		-
	Baud rate		-
	Parity number		-
	Stop bit		-
	Address		-
Mechanical Property	Isolation		-
	Weight (g)		296
	Protection Class		IP40 front / IP20 rear
	Assembly Type		Panel Mount
Cable Cross Sections	Supply, Voltage, Current, Relay Outputs	Stranded:	2,5 mm ² -14AWG
		Solid:	4 mm ² - 12AWG, 2 x 15 mm ² - 2 x 16AWG
	Digital I/O, RS 485, Analog Output	Stranded:	1.5 mm ² -16AWG
		Solid:	1.5 mm ² -16AWG, 2 x 0.75 mm ² , 2 x 18AWG
Ambient Conditions	Operating Temperature		-20 to +70 °C
	Storage Temperature		-30 to +80 °C
	Relative Humidity (no condensation)		Max.95%
EMC-EMI	300 VAC CAT II ace. to IEC 61010-1		Available
	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



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