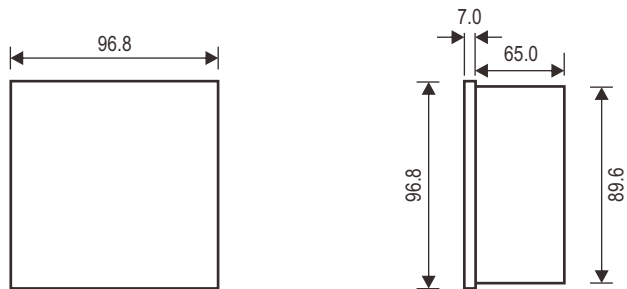
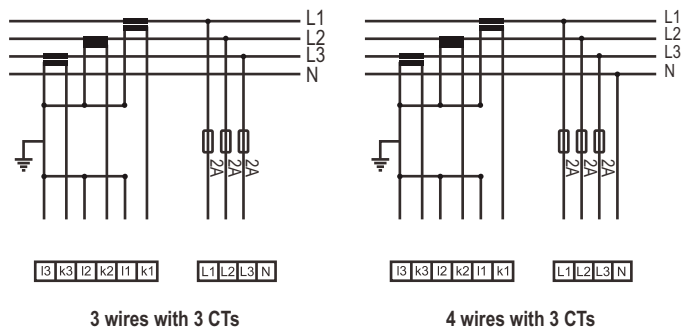



DIMENSIONAL DRAWINGS (mm)

NETWORK CONNECTIONS


TECHNICAL INFO		EMG20B
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 minutes Adjustable
	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	-
	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
Current Measurement Input	Overvoltage Category	300 V Cat II
	Measurement Surge Voltage	2 kV
	Power Consumption	< 0.2 VA
	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		EMG20B
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	Total Active Power	Class 0.5
	Total Reactive Power	Class 1
	Total Apparent Power	Class 0.5
	Total Active Energy	Class 0.5
	According to IEC 61557-12 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	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			EMG20B	TECHNICAL INFO			EMG20B
Inputs and Outputs	Digital Inputs	Number of inputs	-	Communication	Protocol	Modbus RTU	
		Minimum Counting Frequency	-		Baud rate	1200-56700 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)	323	
		Minimum Switching Frequency	-		Protection Class	IP40 front / IP20 rear	
	Analog Outputs	Isolation Level	-	Cable Cross Sections	Assembly Type	Panel Mount	
		Number of outputs	-		Supply, Voltage, Current, Relay Outputs	Stranded:	2,5 mm ² -14AWG
Range of Outputs 0-5V,0-10 V,-5-5 V, -10-10 V,0-20mA, 4-20 mA		-	Solid:			4 mm ² -12AWG, 2 x 15 mm ² - 2 x 16AWG	
Isolation	-	Digital I/O, RS 485, Analog Output	Stranded:	1,5 mm ² -16AWG			
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	< 4.5 VA		Relative Humidity (no condensation)	Max.95%	
		DC	< 2 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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