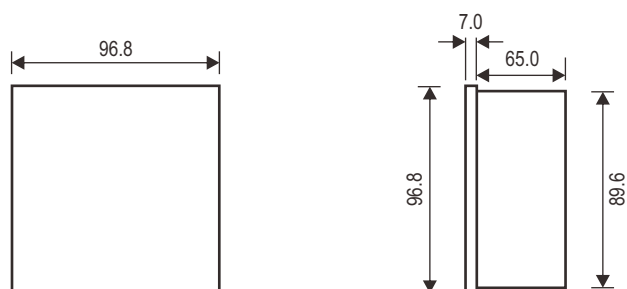



DIMENSIONAL DRAWINGS (mm)


TECHNICAL INFO		EMG50
General	Seven Segment Display	-
	LCD	Available
	Language Support	Turkish, English, Russian
	Battery	Available
	Real Time Clock	Available
	Password Protection	Available
	Current Transformer Ratio	1-5000
	Voltage Transformer Ratio	1-5000
	Demand Period	1-60 min. Adjust
	Connection Type	3P4W, 3P3W, Aron
	Measurement in Quadrants	4
	Number of Measurement in a period	512
	LCD/Display Refresh Period	1 sec
	Networks	TT, TN, IT
	Phasor Diagram	Available
	Signal Waveforms	Available
	Min/Max/Demand Values	Available
Energy Measurement	Number of Tariffs	2
	Multi Sub-Tariffs (Peak, Day and Off-Peak)	Available
	1Ø Phase Energy Meters	-
	3Ø Phase Energy Meters	Available
	4-Quadrant Reactive Energy Meters	-
Current Measurement Input	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
	Sampling Freq.between 45-65Hz	25.6 kHz
Voltage Measurement Input	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	25.6 kHz

TECHNICAL INFO			EMG50
Power Quality Measurements	Harmonics for current and voltage phases		Up to 51st
	THD-Voltage in %		Available
	THD-Current in %		Available
Other Measurements	Run Hour (Operating time for load in hours)		-
	On Hour (Operating time for meter in hours)		-
	Int Counter (Number of power interruptions)		-
Measurements Accuracy	According to IEC 61557-12	Total Active Power	Class 0.2
		Total Reactive Power	Class 1
		Total Apparent Power	Class 0.2
		Total Active Energy	Class 0.5
		Total Reactive Energy	Class 2
		Frequency	Class 0.05
		Current	Class 0.2
		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 0.2S
Acceding to IEC 62053-23	Total Reactive Energy	Class 2	
Inputs and Outputs	Alarm Relay Outputs	Number of outputs	2 pcs
		Type	NO (SPST)
		Max. Switching Current	10A
		Max. Switching Voltage	250 VAC
		Max. Switching Power	1250 VA

TECHNICAL INFO			EMG50
Inputs and Outputs	Digital Inputs	Number of inputs	2 pcs
		Minimum Counting Frequency	100 Hz, 10ms
		Input Present or Not	Dry contact
		Isolation Level	5000 Vrms
	Digital Outputs	Number of outputs	2 pcs
		Type	Transistor
		Switching Voltage Range	5-30 VDC
		Minimum Switching Frequency	20 Hz, 50 ms
	Analog Outputs	Isolation Level	5000 Vrms
		Number of outputs	
Supply	Voltage	AC	85-300 V
		DC	85-300 V
	Consumption	AC	< 3 VA
		DC	< 2.5 W
Data Logging with timestamp	Min/Max/Avg Values	Frequency	45-65 Hz
		Hourly records	1920 hours x 68 different paramaters
			Daily records
	Monthly records	36 months x 68 different parameters	
			4 months x
	Demand		16 different parameters
		Alarm records	50

TECHNICAL INFO			EMG50
Communi- cation	Protocol		Modbus RTU
	Baud rate		2400-115200 bps adjustable
	Parity number		None
	Stop bit		1
	Address		1-247
	Isolation		2750V RMS
Mechanical Property	Weight (g)		404
	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	
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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