

Maximum Demand Indicators / Maximum Demand Controller EMS-15 / EMS-15c

Features

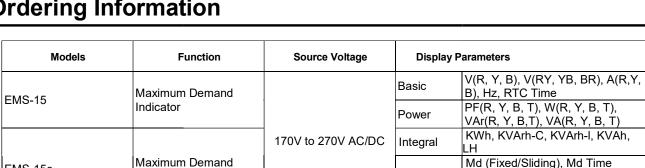
EMS-15c

- High brightness red LED display.
- Measurement of basic, power, energy and demand parameters.
- High brightness alpha numeric LED display for parameters and numeric values.
- Automatic CT reverse correction for energy and demand.
- · Programmable demand techniques block / sliding window
- Programmable demand parameters Apparent / Active power.

Controller

- Programmable demand range Kilo / Mega.
- · Programmable Alarm / hysteresis settings.
- Programmable RTC setting to match EB meter's clock.

Ordering Information



Demand

Front View **EMS-15** EMS-15c



Rear View EMS-15

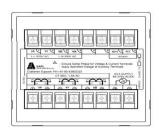


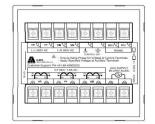
(Fixed/Sliding), Wd (Fixed/Sliding),

Rd (Fixed), Elapsed Time

(Fixed/Sliding)

EMS-15c





Over-all Dimension

	Dimension Details in mm			Cutout Dimension in mm	
Models	W	Н	D	W	Н
EMS-15/EMS-15c	96	96	95.5	92	92



■ Specifications

Parameters Models	EMS-15	EMS-15c		
Function	Maximum Demand Indicator	Maximum Demand Controller		
Rated supply Voltage	85V – 270V AC/DC			
Rated Frequency	50 / 60Hz ± 5% for AC only			
Power consumption	AC Approx. 6 VA DC Approx. 4W			
Burden	< 0.2 VA per Volts/Amps input			
Input Voltage	3 Phase 4 wire (R,Y,B,N) 415 VAC (-40% to +20%) 110 VAC (-40% to +20%)			
Input Frequency	50 Hz, □ 2%			
Input Current	Current inputs (AR, AY, AB) 1A to 5A (to 200%)			
Recovery Time	2 sec minimum			
Accuracy	Class 1.0 For Active Energy Class 2.0 For Reactive Energy			
RTC Accuracy	Up to 20Sec per month			
Communication	RS-485 MODBUS RTU Protocol			
Meter Constant	3200 Pulses/KWh 3200 Pulses/KVArh			
Battery life	Approx 2yrs			
CT Ratio Selectable	Primary 1 to 5KA max Secondary 1 to 5A			
PT Ratio Selectable	Primary 110 to 11KV Secondary 110 to 500V			
Device Id	1-247			
Baud Rate	2400,4800,9600,19200bps			
Pulse Output	Active Energy/ Reactive			
Synchronization technique	Sliding Window/ Fixed(bloc) Window			
Demand Parameter	Active/ Apparent			
Demand Range	Kilo/ Mega			
Demand Period	05 / 10 / 15 / 30 Mins			
Ambient Temperature	Operation: -10°C to +55°C(14°F to 131°F) Storage : -25°C to +80°C(-13°F to 176°F)			
Humidity	Up to 95% RH @ 40°C			
Dielectric Strength	a)2.5 KV AC,50Hz for 1minute(Between current carrying & non-current carrying parts)			
Insulation resistance	>100M Ohms @500V DC			
Dimension (W x H x D)	96 X 96 X 95.5 mm			
Cut-out Dimension(W x H)	92 x 92mm			
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Connection and Terminal Details

	EMS-15	EMS-15c
Connection Details	Section 1 Sectio	The state of the s

	EMS-15	EMS-15c
Terminal Details	1, 2, 3, 4 : R, Y, B, N 7,8 : A,B (RS 485Communication port) 9, 10 : S1, S2 (R Phase) 11,12 : S1, S2 (Y Phase) 13,14 : S1, S2 (B Phase) 15,16 : Auxiliary Supply(85-270 V AC/DC)	1, 2, 3, 4 : R, Y, B, N 5,6 : Digital Output to Relay Module 7,8 : A,B (RS 485Communication port) 9, 10 : S1, S2 (R Phase) 11,12 : S1, S2 (Y Phase) 13,14 : S1, S2 (B Phase) 15,16 : Auxilary Supply(240 V AC/DC, -20 to +10%)