

Dual Source Energy Meter EMS-17

Features

- On site programmable PT (Primary & Secondary) / CT (Primary & Secondary) ratio
- High brightness alpha numeric LED display for parameters and numeric values.
- · Password protection for program settings.
- Protection from dust and water as per IP 51.
- Accuracy Class:1.0(as per IEC 62053-21) / 0.5(as per IEC 62053-22).



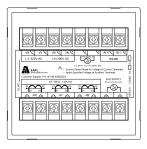
Ordering Information

Models	Function	Source Voltage	Display Parameters
EMS-17	Dual Source Energy Meter	85V to 270V AC/DC	V(R, Y, B), V(RY, YB, BR), A(R,Y, B), Hz, PF(R, Y, B,T), RPM(for generator mode), Phase angle (R, Y, B),W(R, Y, B,T), KWh(M), MWh(M), LH(M), KWh(G), MWh(G), LH(G) All parameters are available in-Mains(M) and generator mode(G), KVA, KVAh (G&M)

Front View EMS-17



Rear View EMS-17



Over-all Dimension

	Dimension Details in mm			Cutout Dimension in mm	
Models	W	Н	D	W	Н
EMS-17	96	96	95.5	92	92

■ Specifications

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Parameters Models	EMS-17	
Function	Dual Source energy meter	
Rated supply Voltage	85V to 270 V AC / DC	
Rated Frequency	50 / 60Hz ± 5% for AC only	
Power consumption	AC Approx 6VA DC Approx 4W	
Burden	< 0.2 VA per Volts/Amps input	
Accuracy	Class 1.0/Class 0.5	
Input Voltage	3 Phase 4 wire (R,Y,B,N) Range - 415 VAC (-40% to +20%) 110 VAC (-40% to +20%)	
Input Current	Current inputs (AR,AY,AB)1A to 5A (to 200%)	
Input Frequency	50 Hz, ± 2%	
Communication	RS-485 MODBUS RTU Protocol	
Recovery Time	2 sec minimum	
Meter Constant	3200 Pulses / KWh	
CT Ratio Selectable	Primary 1A to 5000A max. Secondary 1A to 5A	
PT Ratio Selectable	Primary 110V to 999KV Secondary 110V to 500V	
Device ID	1-247	
Baud rate	2400,4800,960019200 bps	
Poles	1-28	
Protection of configuration settings	User settable Password Range 0001 to 9999	
Humidity	Up to 95% RH @ 40°C	
Ambient Temperature	Operation: -10°C to +55°C(14°F to 131°F) Storage: -25°C to +80°C(-13°F to 176°F)	
Dielectric Strength	2.5KV AC, 50Hz for 1minute (Between current carrying & non-current carrying parts)	
Insulation resistance	>100M ohms @500V DC	
Electrical connection	Screw type terminals with self lifting clamps.	
Dimension (W x H x D)	96 X 96 X 95.5mm	
Cut-out Dimension(W x H)	92X 92 mm	
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Connection and Terminal Details

	EMS-17
Connection Details	WAS A DATE OF THE STREET OF TH

	EMS-17	
Terminal Details	1, 2, 3, 4 : R, Y, B, N 5,6 : Generator sensing input (12VAC/DC to 240V AC/220V DC) 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(85-270 V AC/DC)	