

Basic Meters

EMS-13/EMS-13a

Features

- High brightness red LED display.
- Programmed values of parameters are protected against unintentional / unauthorised changes.
- Entering program mode is possible by means of short links or buttons.
- Measurement of frequency parameter(Average).



Ordering Information

Models	Function	Source Voltage	Display Parameters
EMS-13		240V AC	(L – N)Frequency
EMS-13a			

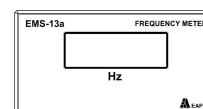
Note:EMS-13 available in 110V AC also.

Front View

EMS-13

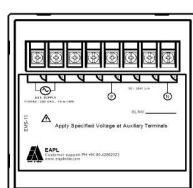


EMS-13a

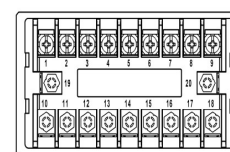


Rear View

EMS-13



EMS-13a



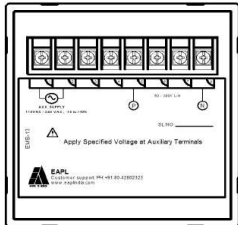
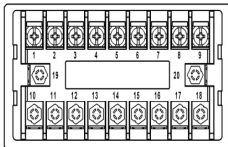
Over-all Dimension

Models	Dimension Details in mm			Cutout Dimension in mm	
	W	H	D	W	H
EMS-13/EMS-13s/EMS-13y	96	96	95.5	92	92
EMS-13a	98	50	79	92	46

■ Specifications

Parameters	Models	EMS-13	EMS-13a
Function		Frequency Meter	
Rated supply Voltage		240V AC(-15% to +10%)	
Rated Frequency		50 Hz \pm 5%	
Power consumption		AC Approx. 5 VA	
Burden		< 0.2 VA per Volts/Amps input	
Input Voltage		Range 50V-300V(L-N)	
Input Frequency		45 Hz to 65 Hz	
Recovery Time		500msec minimum	
Frequency		\pm 1% of FS \pm 1digit	
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		2.5 KV AC, 50Hz for 1 minute (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 95.5 mm	96 X 50X 79 mm
Cut-out Dimension(W x H)		92 x 92mm	92 x 46mm

Connection and Terminal Details

	EMS-13	EMS-13a
Connection Details		
Terminal Details	1,2 : Auxiliary Supply(240 VAC,-15% to +10%) & Auxiliary Supply(110 VAC,-15% to +10%) 5 : R Phase 8 : Neutral	1,2 : Auxiliary Supply(240 VAC,-15% to +10%) 6 : Phase 9 : Neutral