

# ENERGY & PROCESS MONITOR | CONTROL

Real-Time Monitoring | Improve Productivity

DEVICE TO MONITOR ENERGY & PROCESS TOGETHER!



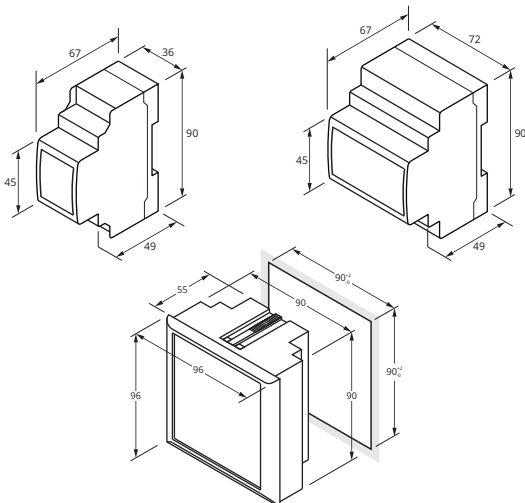
## Features :

- True RMS measurement.
- Simultaneous sampling of Volts & Amps.
- Energy display programmable-counter based or resolution based.
- Energy resetting at 999999 kVAh × MF for EPM and 99999999 kWh/kVAh for EPC.
- Positive energy accumulation even with CT polarity reversal, reverse lock programmable.
- User programmable password protection.
- Auto scrolling.
- Auto scaling of Kilo, Mega, Giga and Decimal point.
- Low PT, CT burden.
- Displays - Basic: VLL, VLN, A (Avg. & Phase wise), F; Power: W, PF, VA (Avg. & Phase wise); Energy: Wh or VAh programmable (any one), Load hrs, Max & Min (VLL and Amps), OLD Wh, OLD LH.
- Front LED pulse 10000 imp/kWh of secondary input for EPM and 16000 for EPC.
- Programmable PT, CT ratio upto 2000 MVA.
- Energy is programmable to Wh or VAh with 6 Digits resolution and 4 Digits resolution for instantaneous parameters.
- 80 to 300 V AC/DC Auxiliary supply.

## Intelligent:

- Clearance and Creepage distance meets safety standard.
- Finger touch proof terminals to voltage and current connections.
- Parameter name and value displaying using 7 segment LED's.
- Field programmable Star (Wye) or Delta or Single phase configuration.

## Mechanical Specification:



## Additional Features: EPC 5110D

- High & Low measurements for Voltage and Current (Last one minute of data).
- Digital Input programmable for high frequency (72000 RPM) or low frequency (6RPM)
- Displays last one minute RPM. Cumulative RPM through RS 485.
- Optional: Digital Input (5-24V), Analog input (4–20 mA / 0–20 mA), Digital output (Relay, 2A) programmable up to 18 different parameters for each relay making as mini PLC.
- ON and OFF time for low-frequency input for the better understanding of breaks (avoid glitches).

## PROCESS INTEGRATION:

Integration of process parameters such as temperature, flow, pressure, RPM, etc. giving greater flexibility to monitor them along with electrical parameters.



## Technical Specification:

	EPM 5110	EPC 5110
Accuracy:	Class 1.0 (Default) as per IEC 62053-21, Class 0.5 as per IEC 62053-22 (Optional).	
Sensing/ Measurement:	True RMS, 1 Sec. update time. 4 Quadrant Power & Energy.	
Input Voltage:	4 Voltage inputs (V1 V2 V3 VN). Programmable 110 or 415V LL Nominal (Range 50 to 550V LL) Primary programmable upto 999 kV. Burden: 0.2VA Max. per phase.	
Input Frequency:	45 - 65 Hz	
Input Current:	Current inputs (A1 A2 A3) 50mA – 6A (Field configurable 1A or 5A). Primary programmable upto 99 kA. Overload: 10A max. continuous, 50A max. for 3 sec. Burden: 0.2VA Max. per phase.	
Aux-Supply (control power):	80 – 300V AC/DC, 40-70Hz. Burden: 5VA Max.	
Display resolution:	4 Digits for Instantaneous, Integrated: 6 Digits.	
CT Ratio:	2000 MVA programmable.	
Optional IO	3DI, 2AI	6DI, 2AI, 2DO or 8DI, 2AI (Lx0800)
Communication RS485 interface:	Parity: Odd, Even, None (Preferred Even) Baud rate: 4800 bps to 38400 bps. (Preferred 9600 bps). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits.	
Zigbee:	Optional	Optional
Mounting:	Panel	DIN rail
Weight:	Unpacked 300 gms. Packed 400 gms	
Torque	1 N-m	
Wire gauge	11 AWG	