



Multifunction Meter

Instrument
Division

AE 9000 BM ▶ AE 9001 BM ▶ AE 9002 BM ▶ AE 9003 BM

1. Product Perspective

AE -900x BM is used in variety of industrial and commercial applications. AE – 900x BM computes -Display, Monitor, stores, and communicate up to 08 electrical parameters, including true RMS Voltage, Current, PF, Frequency, Active power, Reactive power, Apparent power, Active energy, The meter offers simple user-friendly Programming of Voltage and current Measurement parameters using a menu driven interface. Status of all parameters can be viewed on the 3 line, 4 digits LED display. The AE -900x BM has digital RS485 Communication outputs for MODBUS.

2. Operation

AE – 900x BM offers high functionality and uncomplicated operation. The AE- 900x BM measures & monitor important fundamental Electrical parameters. A two-button interface on the front panel gives simple access to user.

3. Monitors

- Voltage- Line – Line , Line - Neutral & System voltage.
- Current- Individual Phase, Average.
- Frequency
- Power (Active, Reactive and Apparent)
- Energy (Active)
- Power Factor(average)

4. Product Features

- Fully programmable CT and PT ratio (Primary / Secondary).
- Fully programmable selection of three phase 3 wire or 4 wire configuration.
- The true RMS measurement.
- Display and communication of up to 10 parameters
- Simultaneously three parameters can be view
- Active Energy Measurement.
- Display all three Power i.e. Watt, VA & VAR
- RS 485 interface (optional).
- Conform to IP52 (front face)
- LED test facility.
- High quality LED display.
- Simple menu driven front board.
- Universal Auxiliary Power Supply.

5. Typical Applications

- Energy Generation & Distribution Systems
- Industrial & Commercial Generator sets.
- Control & Monitoring Systems.
- Process Control.
- Switch Gear.

6. Typical Classification

Parameter	AE-9000 BM	AE-9001 BM	AE-9002 BM	AE-9003 BM
Voltage (L-L & L-N)	✓	✓	✓	✓
Voltage (System)	✓	✓	✓	✓
Current (L-N)	✓	✓	✓	✓
Current (System)	✓	✓	✓	✓
Frequency (F)	✓	✓	✓	✓
P.F.(System)	✓	✓	✓	✓
Active Power (W)	✓	✓		
Reactive Power (VAr)	✓	✓		
Apparent Power (VA)	✓	✓		
Active Energy (KWh)	✓		✓	





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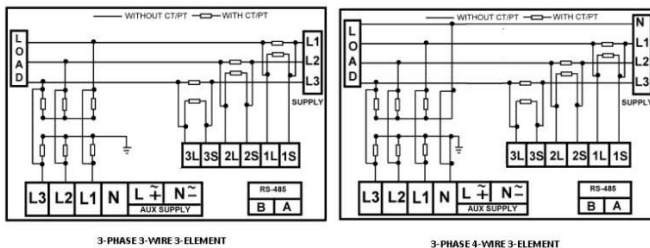
7. Specifications

Type:	3-Phase-3-wire/ 4wire, (Programmable through front panel Switches).
Input voltage V AC	110V or 440 V (L-L)
Voltage Overload	1.5 times for 10 sec
Input Current A AC	1A or 5A
Current Overload	50A max for 3 sec
Auxiliary supply	AC / DC: 85 V - 300 V.
Burden	For Voltage / Current - 0.2 VA max per Volt/Amp input, Auxiliary - 3VA max
Frequency	45 Hz - 55Hz
Resolution	RMS 4 digit, Integral 8 digit
Accuracy Class:	1.0.
RS485 communication:	Two wire half duplex, Baud rates - 9600, 19200, 38400.
Isolation:	2k VAC isolation for 1min. between communication and other circuit.
Environmental:	Operating Temp. -10 to +60 °C. Storage temp.-20 to +85°C, Humidity [95% RH non condensing.
Mechanical Size:	Bezel : 96 x 96 mm, Depth : 83mm behind Bezel
Protection	IP52 for front Display.
Conform to	IS13875, IEC- 61000-4-2, IEC61000-4-5, IEC61000-4-6, EMI/EMC- IS14697;CL 12.8.5. For Energy Accuracy - Class 1 - IS13779 / IEC 62052-11 & 62053-21.
Casing	ABS
Keypad	2 Functional keys
Display	3 line, 4 digits LED display.

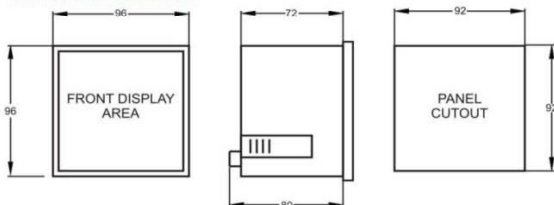
8. Digital Communication (OPTIONAL)

An RS485 communication Port is available for direct connection to SCADA systems (EMS / BMS) using the Modbus RTU protocol. Remote monitoring enables the user to record the systems parameters in real time basis.

9. Wiring Diagram:



10. Dimensions:



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