



Precision Measurement Multifunction Meter (0.2 Class)

Instrument
Division

AE 9000 BMS ► AE 1440 BMS

1. Product Perspective

AE 9000 BMS / AE 1440 BMS is used in variety of industrial and commercial applications. AE 9000 BMS / AE 1440 BMS computes - Display, Monitor, stores, and communicate up to 32 electrical parameters, including true RMS Voltage, Current, PF, Frequency, Active power, Reactive power, Apparent power, Active energy, Reactive energy, Apparent 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 9000 BMS / AE 1440 BMS has digital RS485 Communication output.

2. Operation

AE 9000 BMS / AE 1440 BMS offers precision measurement and uncomplicated operation. The AE 9000 BMS / AE 1440 BMS measures & monitor important fundamental Electrical parameters. A two-button interface on the front panel gives simple access to user.

3. Monitors

- Voltage (Line - Neutral & Average Line - Neutral Voltage)
- Voltage (Line - Line & System Voltage)
- Current (Individual Phase & Average Current)
- Frequency
- Power (Individual Phase & Total: Active, Reactive and Apparent)
- Total Energy (Active, Reactive and Apparent)
- Power Factor (Individual Phase & Average)

4. Product Features

- Facilitate for precision measurement like 0.2s
- Highly adaptable and suitable for a wide range of measuring application.
- Default RS-485 Port for data communication.
- Advanced micro-controller based design.
- True RMS measurement.
- Programmable CT & PT ratio (Primary Measurent).
- Universal AC / DC Auxiliary supply 85-285V AC / DC or 18-60 V DC (Any one).
- Display and communication of up to 32 parameters
- LED test facility.
- High quality 3 Line, 4 Digit LED display.
- Simple menu driven front board.
- Available in size : 96x96 and 144x144mm.

5. Typical Applications

- Energy Generation & Distribution Systems
- Industrial & Commercial Generator sets.
- Control & Monitoring Systems.
- Process Control & Automation panels.





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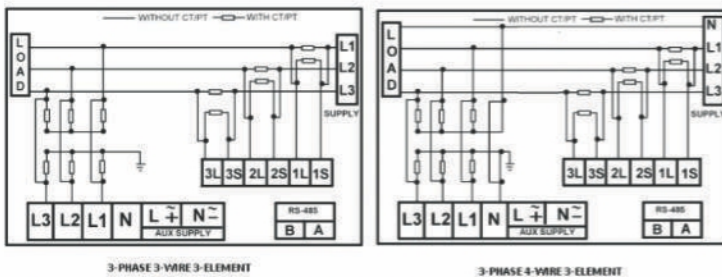
7. Specifications

Type:	3-Phase-4wire
Input voltage V AC	110V or 440 V (L-L) (Anyone)
Voltage Overload	1.5 times for 10 sec
Input Current A AC	1A or 5A (Anyone)
Current Overload	50A max for 1 sec
Auxiliary supply	85-285V AC / DC or 18-60 V DC (Any one).
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:	0.2s
RS485 communication:	Two wire half duplex, Baud rates - 4800, 9660, 19200.
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/144 x 144 mm. Depth : 83mm behind Bezel / 94mm 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 -0.2s.
Casing	ABS
Keypad	2 Functional keys
Display	3 line, 4 digits LED display.

8. Digital Communication

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 : AE 9000 BMS



Dimensions : AE 1440 BMS

