BEEMET

ANALOG MDI METERS

Beemet maximum demand indicator meters indicate the thermal /time characteristics of load and help audit efficient use of transformer stations and LT distribution feeders. The dimensions comply with the requirements of DIN 43700 and scales with DIN 43802. The performance confirms to IS 1248-83/93. The cases are made of polycarbonate.

The instrument pointer is accompanied by a red slave pointer which is driven by the torque of a bimetallic movement. This slave pointer remains at the max reading position for a successive reading and has to be reset to its default position with the help of a knob.

In the three-pointer __ meter, a moving iron movement is housed in addition to the bimetallic spring, which indicates instantaneous and maximum demand currents.

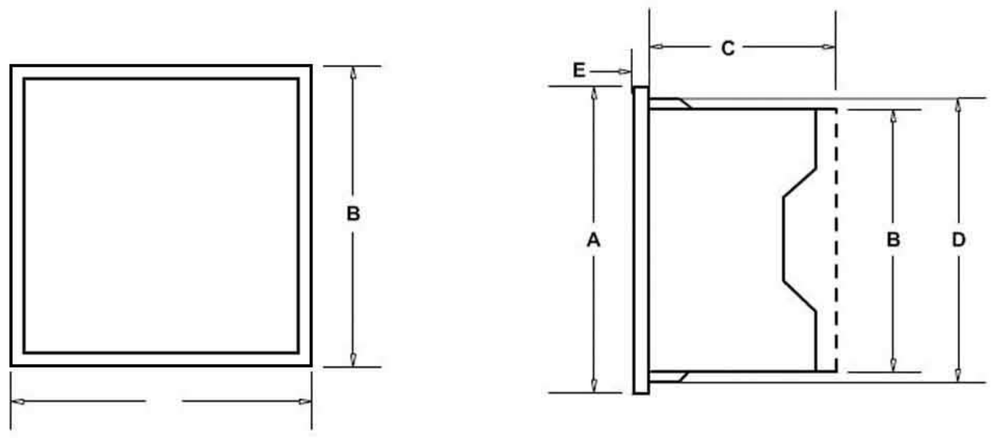
MDI-72

MDI-96(3)

SALIENT FEATURES

- Rugged movements ensure sustained accuracy and reliability.
- Reset knob is easily accessible.
- Square bezel permits edge to edge mounting, allowing maximum use of panel space.
- Interchangeable dial for range portability.
- Almost linear scale for MI dial in 3-pointer.
- Clear scaling for easy reading.

DIMENSIONS



Pointers	Model no	Dimensions (mm)							Panel Cutout
		A	B	C	D	E	Bimetallic Scale	Moving Iron Scale	
Two Pointer	MDI-72	72	66	53	67.5	5.5	61	_	68X68
	MDI-96	96	90	53	91.5	5.5	97	_	92X92
Three pointer	MDI-72(3)	72	66	53	67.5	5.5	52	61	68X68
	MDI-96(3)	96	90	53	91.5	5.5	71	97	92X92

* With external Shunt ** With external CT

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GENERAL SPECIFICATIONS

Accuracy Class	±3.0% F.S.D. (Bimetallic), ±1.5% F.S.D. (Moving Iron)
Measurable quantities	AC Current
Pointer deflection	0 – 90°
Frequency	45 – 60Hz
Thermal Time delay	8 or 15 minutes
Moving Iron Response Time	~2 seconds
Overload capacity	According to IS: 1248 / IEC 51
Short duration	10 times for 5s: 1 overload 10 times for 0.5s: 9 overloads
Continuously	1.2 times rated voltage or current
Power Consumption @1A	<1.6VA (2-pointer), <2.5VA (3-pointer)
Power Consumption @5A	<2.5VA (2-pointer), <3.4VA (3-pointer)
Ambient Temperature @ use	0 to 50°C
Operating Temperature	-10 to 55°C
Storage Temperature	-25 to 65°C
Relative Humidity	< 75% annual average, non-condensing

RANGE CHART

Bimetallic	Moving Iron	For use on CT
1A	1A	__ / 1A
5A	5A	__ / 5A

Note: These instruments are suitable for frequency range of 15 – 400 Hz

WIRING DIAGRAM

With Direct Connection

With Current Transformer

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