

MFM 144 X 144 FLUSH CATALOUG

FEATURES:

- > By level monitoring of all Electrical Parameters viz.
- ➤ V, I, Φ, cosΦ, Hz, KVA, KVAR, KW & KWH.
- > True RMS measurement.
- Available in different class of accuracies (0.2s %).
- ➤ User selectable display ranges / PT & CT Primary.
- > Auto Scrolling / Manual display.
- RS485 communication port with MODBUS RTU Protocol.
- Front Optical communication port.
 (TX & RX LED's are provided on front side.)
- Compatible for data logging & SCADA applications.
- In-built RTC (Real Time Clock) with calendar.



GENERAL SPECIFICATIONS:

1 Version : a)Single Phase b)3Φ-, 3-wire, 2-element, c)3Φ-, 4-wire, 3-element, d) 3Φ-, 4-wire, 4-element

Specify the version required, while ordering.

2 Quadrant of Operation : 4

3 Display. : Bright red 7-segment LED display.

4 Human Machine : Through Front Panel Tactile Keys.

Interface

Indications. : i) Phase Voltage (V P to P), ii) Phase Current, iii) Line Voltage (VL), iv) Frequency (Hz), v) Power Factor (COSΦ),

vi) KVA, vii) KVAR, viii) KW, ix) KVAH, x) KVARH, xi)KWH.

6 Voltage Inputs. : Through suitable PT. Primary side: User selectable. Secondary side:63.5/110/220/440AC Specify any

one while ordering.

7 Current Inputs. : Through suitable CT. Primary side: User selectable. Secondary side: 1A / 5A. Specify any one while

ordering

8 Auxiliary Supply. : Rated: 85-250V AC/DC OR 48VDC 10%.(With +ve or -ve earthed)

9 VA burden. : 1.5VA on PT fro140m which Aux. Supply is derived. 1VA on each PT for sensing. 0.5VA on each CT.

Frequency Range. : 40 to 60 Hz.

Power Factor Range. : $0.1 \log - 1 - 0.1 \log d$.

12 Over Voltage. : 200% for 5 seconds.

13 Over Current. : 2 times continuous, 20 times for 1 second

14 Response time. : 200 milli-seconds.

15 Sampling Rate : 32 samples per cycle.

16 Class Of Accuracy : 0.2S as per IEC 60687, IS14697

17 Complies to EMI/EMC : IEC 61000-4-5,3,4

18 Display Resolution : Up to 1 decimal.

19 Output. : Two communication ports with optical isolation. RS485 communication port with MODBUS RTU

protocol. Front Optical communication port. (TX & RX LED's are provided on front side.)

20 Optional : CT Shorting Terminals

21 Mounting. : Flush, Panel Mounting.

22 Dimensions. : 144x144mm. Panel cut-out: 138x138 mm.

23 Ambient Conditions. : Working: 00 – 550C, 5 – 95% RH. Storage: -200C to 700C.



