



Modbus Transducer

MFT-100 Series



Modbus Transducer



“We at Cewe Instrument AB, having 50 years of excellence in providing reliable and innovative product solution world wide in the field of panel meters, transducers and precision metering. A Modbus transducer series is in line with our endeavors in this direction. Modbus transducer equipped with latest technology provides a combination of high accuracy and comprehensive functionality”

The Modbus transducer (MFT 100) measure energy parameters along with key electrical instantaneous parameters. The product is having DIN Rail mounting and MODBUS RTU support for remote interrogation of parameters. MFT 100 is ideal for control panels, SCADA, Utility power monitoring, building energy management system applications.

The MFT-100 series offers:

- Accuracy 0.5 and 0.2 according to IEC60688
- Energy Parameter Accuracy conforming to IEC60687
- RS485 (MODBUS) RTU for multiple parameters monitoring
- DIN Rail Mounting
- Import / Export monitoring for power & energy
- Open circuit protection with unique current transformer shorting plug

MFT-100 series offers following parameter on Modbus:

| | |
|--------------|--|
| Voltage | Line to Line and Line to Neutral |
| Current | Line and Neutral |
| Power | Active, Reactive and Apparent (System and Per Phase) |
| Energy | Active, Reactive and Apparent |
| Power Factor | System and per Phase |
| Frequency | |

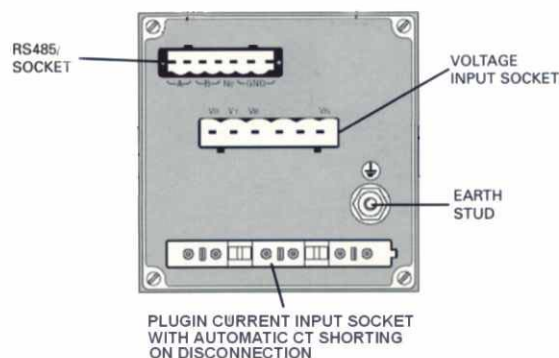
MFT-100 Series - Technical Specifications

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|--|--|---|
| ELECTRICAL | 3 x 110/ $\sqrt{3}$ V | 3 X 400/ $\sqrt{3}$ V |
| CONNECTION | 3 phase 4 wire | 3 phase 4 wire |
| VOLTAGE RANGE | +/- 30 % of Vn | |
| CURRENT (All model types) | Basic 5 A or 1A Input Current selection 1A/5A as optional feature * *Available in accuracy class 0.5 Maximum 120% of I _{basic} | |
| FREQUENCY | 50 Hz \pm 5% | |
| BURDENS (All model types) | Voltage Circuit Current Circuit | Less than 1 VA Less than 0.5 VA |
| MECHANICAL (All model types) | Dimensions (mm) Enclosure material Weight Max. wire size | 96 x 96 x 112 (W x H x D) Extruded aluminium 0.65 kg (approx.) 2.5 mm ² |
| COMMUNICATION PORTS | RS485 Modbus RTU | |
| Type | Multi Drop capability | |
| Connector type | 7 pin combicon connector | |
| OPTICAL PORT | For programming purpose only | |
| ISOLATION | 2KV RMS between earth and all connecting terminals. | |

STANDARDS AND REGULATIONS

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|-----------|--|
| IEC 60688 | Electrical measuring transducers for converting a.c. electrical quantities to analogue or digital signals. |
| IEC 60687 | Alternating Current Static Watt-Hour Meters for Active Energy (Classes 0.2 S and 0.5 S); |

Connection arrangements





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