



Maximum Demand Meters

Maximum demand meters are suitable for measuring the maximum average load current over a 15 minute time period. Due to their inherent time lag the bimetallic movement remains unaffected by any momentary or short duration overloads. The mean maximum demand is therefore indicated by a red 'drag' pointer which can be set or reset to zero using the front control knob.

The FE96MDIA version also includes an instantaneous reading ammeter for constant monitoring of current demand. The meters are available to operate from 5A secondary rated current transformers. Scales are non-linear and are calibrated from 20% to 120% of full scale current.

Models Available

FE96MDI DIN96 Maximum Demand Meter

FE96MDIA DIN96 Maximum Demand Meter with Ammeter

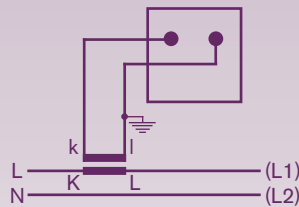
Product Features

- Maximum current demand measurement
- Standard DIN square size
- Interchangeable scaleplates
- Many options available (see page 22)

For dimensions see pages 23-24

Maximum Demand - for measuring the maximum average load current

Connections



Ordering information

Code	DIN Square Size & Meter Type	Input & Scaling
FE96MDI	96 x 96mm Maximum Demand Meter	-
FE96MDIA	96 x 96mm Maximum Demand with Ammeter	-
Specify	-	5/5A to 3000/5A (specify)
Example	FE96MDIA	100/5A

Specification

Accuracy:

- Class 1.5 ($\pm 1.5\%$ max. error)

Input Current, I_n :

- 5A CT operated

Scales:

- 0-5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 80, 100, 120, 150, 200, 250, 300, 400, 500, 600, 800, 1000, 1200, 1500, 1600, 2000, 2500, 3000A

Response Time:

- 15 minutes

Overload:

- $1.2 \times I_n$ for 2 hours
- $10 \times I_n$ for 5 seconds

Frequency:

- 50/60Hz (400Hz upon request)

Burden:

- $< 2.5VA$

Weight:

- FE96MDI 260g
- FE96MDIA 300g



Hours Run Meters (Electromechanical)

Models Available

- BZW48/2-E** DIN48 Black AC Panel Mounted
- BZW48/2-A** DIN48 Black AC - DIN Rail Mount
- BZG48/2-E** DIN48 Black DC Panel Mounted
- BZG48/2-A** DIN48 Black DC - DIN Rail Mount

- HE72ETM/A** DIN72 White AC Panel Mounted
- HE72ETM/D** DIN72 White DC Panel Mounted
- HE96ETM/A** DIN96 White AC Panel Mounted
- HE96ETM/D** DIN96 White DC Panel Mounted

Product Features

- Hours run monitoring
- Standard DIN square sizes
- Non-resettable
- Many options available (see page 22)

For dimensions see pages 23-24

Hours run meters are suitable for monitoring equipment and scheduling of events. The meters are ideal for recording running time, maintenance intervals or machine utilisation. The electromechanical movement ensures the count is retained in the event of power loss. They are available in several sizes of DIN enclosure and are available to operate on a comprehensive variety of supply voltages and frequencies, including DC.

The DIN48 black hourmeters are available to panel mount or surface/ DIN rail mount. Optional 55mm and 72mm bezels enable circular hole mounting and optional gaskets are also available for all models. The DIN48 hourmeters have finger-proof terminals whilst the DIN72 and DIN96 hourmeters are supplied with a terminal cover.

Hours Run Meters – for monitoring hours of operation on machines

Specification

Counting Range:

- 99,999.99 hours with power indication

Numerals:

- DIN48: 3.5mm high (with magnifier)
- DIN72/DIN96: 4mm high

Enclosure:

- Flame retardant ABS to DIN 43700

Enclosure Code:

- DIN48: IP65 front
- DIN72/DIN96: IP54 front (IP65 optional)

Mounting:

- DIN rail: BZW48/2-A & BZG48/2-A
- Panel mounting: all others

Operating Voltages:

- 24, 48, 110, 230, 415Vac ($\pm 10\%$)
- 10-80, 80-220Vdc ($\pm 10\%$)

Test Voltage:

- 2.5kV rms for 1 minute

Frequency:

- 50 or 60Hz

Power Consumption:

- Approximately 10mA at rated voltage

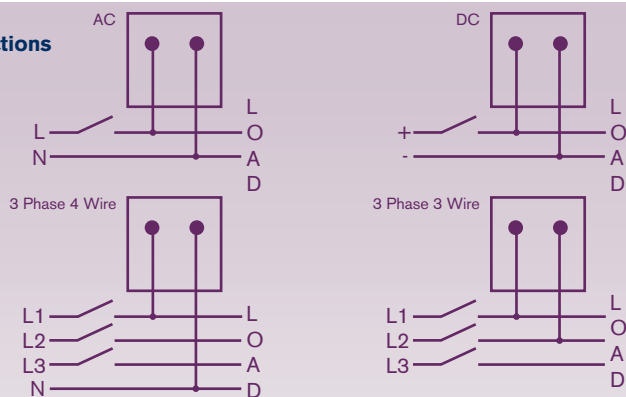
Terminals:

- Polarity marked screw clamp

Weight:

- DIN48 60g, DIN72 150g, DIN96 190g

Connections



Ordering information

Code	DIN Square Size & Mounting Type	Voltage	Frequency
BZW48/2-E	48 x 48mm AC Panel Mounting	-	-
BZW48/2-A	48 x 48mm AC DIN Rail/Surface Mounting	-	-
BZG48/2-E	48 x 48mm DC Panel Mounting	-	-
BZG48/2-A	48 x 48mm DC DIN Rail/Surface Mounting	-	-
HE72ETM/A	72 x 72mm AC Panel Mounting	-	-
HE72ETM/D	72 x 72mm DC Panel Mounting	-	-
HE96ETM/A	96 x 96mm AC Panel Mounting	-	-
HE96ETM/D	96 x 96mm DC Panel Mounting	-	-
Specify	-	24, 48, 110, 230, 415Vac	-
Specify	-	10-80, 80-220Vdc	-
Specify	-	-	DC, 50 or 60Hz
Example	BZW48/2-E	230V	50Hz