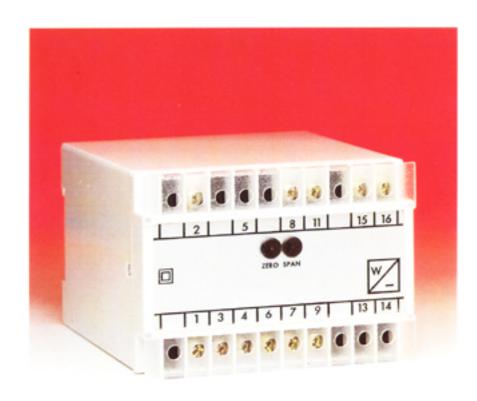
ACTIVE POWER



SELECTION GUIDE

M100-WA1 Single phase M100-WA2 3 phase 3 wire balanced load M100-WA3 3 phase 4 wire balanced load M100-WA4 3 phase 3 wire unbalanced load M100-WA5 3 phase 4 wire unbalanced load M100-WA6 3 phase 3 wire balanced load externally

connected reverse C.T.s

M100-WA7 3 phase 3 wire balanced load internally

reversed C.T.s

TYPICAL APPLICATIONS

The M100-WA series measure active power in single, 3 phase 3 or 4 wire balanced and unbalanced systems. Using the time division multiplier circuit means that they can be used over a wide range of input waveforms. The D.C. Output signal is directly proportional to the instantaneous power being

Typical applications include the measurement of power in switchboards, power stations, generating sets etc. The high isolation of 4kV as with all the M100 series, allows these watt transducers to be connected to a variety of measuring and control devices and systems, such as analogue meters, PLC, computers, data loggers, digital instruments and telemetry systems.

Both auxiliary powered and self powered versions of each type are available, it is recommended to use an auxiliary powered version if the system being measured has voltage variations in excess of $\pm 20\%$.

TECHNICAL SPECIFICATION

INPUT

Rated value In 1 or 5 Amp C.T. connected

0.5-10 Amp direct connected

57.8 < 600 volt Rated value Un <1 VA voltage Power consumption

<0.2 VA current

Working range 0-125% Un auxiliary powered

75-125% Un self powered

0-150% In

Rated Frequency 50 / 60 / 400 Hz Frequency influence 0.005 % / Hz Overload continuous 4 x In 1.5 x Un Overload for 1 sec. 50 x In 2 x Un

OUTPUT

Rated value mA 0-1/5/10/20 & 4-20mA

0-5 / 10 & 1-5 V Rated Value Volts

ADJUSTMENT

Zero ± 2% ± 10% Span

AUXILIARY

A.C. Voltage 115 / 230 / 400 V (± 25% / 45-65

Hz/< 2VA)

D.C. Voltage 24 / 48 / 110 V (± 20% /

galvanically isolated / <3 W)

WEIGHT & CASE SIZE

M100-WA1,2,3,6,7 Approx. 0.6kg. 100mm case M100-WA4,5 Approx. 0.8kg. 100mm case

ORDERING INFORMATION

Product Code I/P In Un O/PRange Aux Freq Opt. M100-WA5 800/5A 230v 0-20mA 600kW 230v 50Hz

OPTIONS

- 1. Non standard inputs / outputs only as far as technically
- 2. A.C. Auxiliary in range 57.7 to 450 volts
- Calibration at nominal Hz 35.....450Hz
- Calibration at temperature other than 23°C