SPECIAL AC VOLTAGE



SELECTION GUIDE

M100-VS1 Suppressed zero voltage auxiliary powered
 M100-VX1 1 ph. aux. powered ave. sensing RMS calibrated
 M100-VX3 3 ph. aux. powered ave. sensing RMS calibrated

TYPICAL APPLICATIONS

The M100-VS1 is a self powered voltage transducer. The suppression allows the transducer to accurately measure a voltage system over a narrow band either side of a nominal voltage. The range can be between \pm 10% to \pm 30% which can be specified when ordering. Typical application is to display the voltage on an analogue meter with an expanded scale. This allows the user to read small changes in the voltage in a single or 3 phase system. The output could also be fed to a computer that could then control the voltage of the system, to ensure that it stays within the narrow band.

The M100-VX1 and VX3 are essentially the same as the M100-VX1 and VA3, but they have auxiliaries which allow the working range to be 0-125% rather than 10-125%. Used where the average sensing of voltage is required from 0 to 125% of the nominal voltage.

TECHNICAL SPECIFICATION

INPUT

Rated value Un Power consumption

tion < 1 VA (VX1, VX3)
<1.5 VA (VS1)</pre>

Working range

<1.5 VA (VS1)
0-125% Un (VX1, VX3)
10-30% Un (VS1)

57.8 <100 / 110 <600 V

Rated Frequency Frequency influence Overload continuous Overload for 1 sec. 10-30% Un (VSI) 50 / 60 / 400 Hz 0.005 % / Hz 1.5 x Un 2 x Un

OUTPUT

Rated value mA Rated value mA 0-1 / 5 / 10 / 20mA (VX1, VX3) 1/5/10/20 & 4-20mA (VS1)

Rated value volts
Rated value volts

0-5 / 10 V (VX1, VX3) 0-5 / 10 V & 1-5 V (VS1)

ADJUSTMENT

Zero Zero Span No adjustment (VX1, VX3)

 $\pm 2\%$ (VS1)

 $an \qquad \qquad \pm 10\% \; (VX1, \; VX3, \; VS1)$

AUXILIARY A.C. Voltage

115 / 230 / 400 V (± 25% / 45-65Hz / <2 VA)

D.C. Voltage

24 / 48 / 110 V (± 20% galvanically isolated / < 3 W) Note M100-VS1 is self powered

WEIGHT & CASE SIZE M100-VS1,VX1

M100-VX3

Approx. 0.4 kg. 55mm case Approx. 0.7 kg. 100mm case

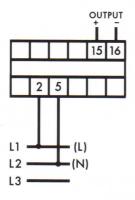
ORDERING INFORMATION

Product Code Input Un Output Aux Freq. Option M100-VS1 $110V \pm 15\%$ 20mA - 50Hz

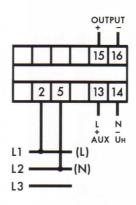
OPTIONS

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

AC VOLTAGE CONNECTION DIAGRAMS



M100VA1/VS1



M100VL1/VR1/VX1

