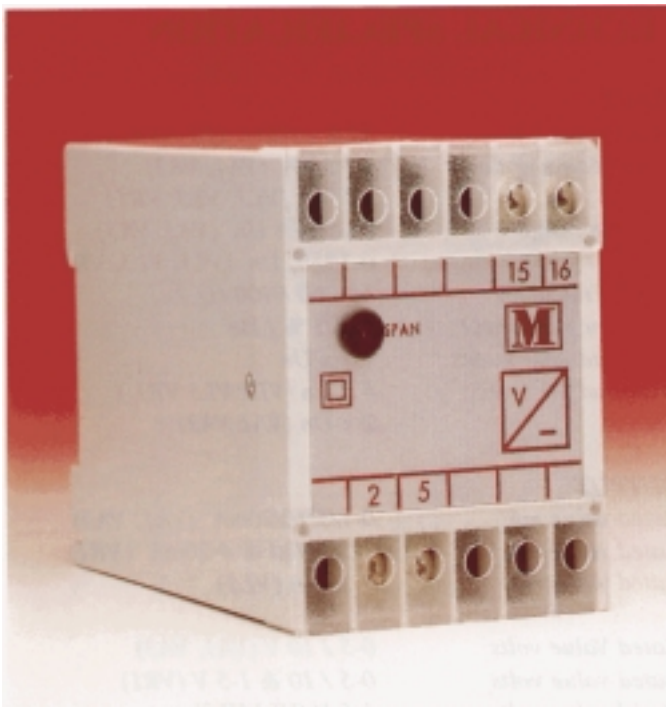
SPECIAL AC VOLTAGE



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 ± 10% to ± 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-VA1 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	*57.8 <100 / 110 <600 V*
Power consumption	*< 1 VA (VX1, VX3)*
	<1.5 VA (VS1)
Working range	*0-125% Un (VX1, VX3)*
	10-30% Un (VS1)
Rated Frequency	*50 / 60 / 400 Hz*
Frequency influence	*0.005 % / Hz*
Overload continuous	*1.5 x Un*
Overload for 1 sec.	*2 x Un*
OUTPUT	
Rated value mA	*0-1 / 5 / 10 / 20mA (VX1, VX3)*
Rated value mA	*1/5/10/20 & 4-20mA (VS1)*
Rated value volts	*0-5 / 10 V (VX1, VX3)*
Rated value volts	*0-5 / 10 V & 1-5 V (VS1)*
ADJUSTMENT	
Zero	*No adjustment (VX1, VX3)*
Zero	*± 2% (VS1)*
Span	*± 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	*Approx. 0.4 kg. 55mm case*
M100-VX3	*Approx. 0.7 kg. 100mm case*

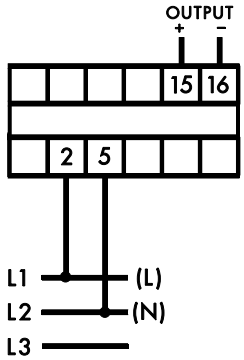
ORDERING INFORMATION

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

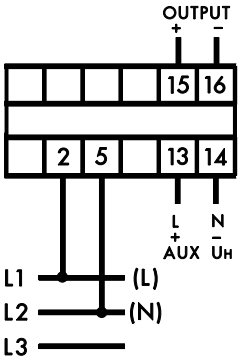
OPTIONS

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*

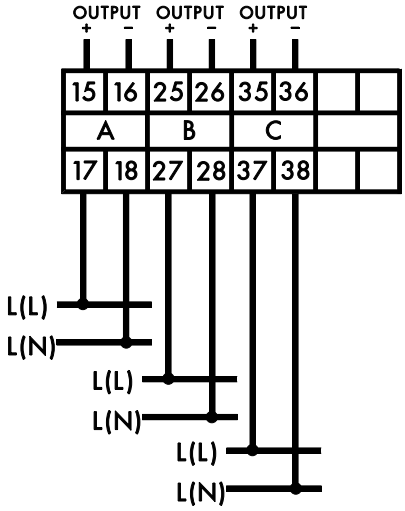
AC VOLTAGE CONNECTION DIAGRAMS



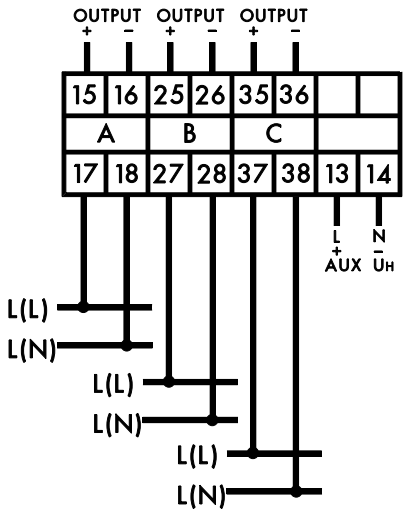
M100-VA1 / VS1



M100-VL1 / VR1 / VX1



M100-VA3



M100-VL3 / VX3