RTD TEMPERATURE



SELECTION GUIDE

M100-RTD RTD temperature measurement

TYPICAL APPLICATIONS

The M100-RTD monitors the resistance of either 100 Ohm Platinum, or 120 Ohm Nickel. The RTDs resistance increase as the temperature rises, this resistance change is detected by the M100-RTD, which provides an output corresponding to the temperature being measured.

The temperature versus resistance values, are provided by the supplier of the RTD used.

RTD measurement of temperature is used in large

transformers and large motors, to ensure winding

temperatures do not rise to a level that would damage the winding.

TECHNICAL SPECIFICATION

INPUT 2 or 3 wire input Platinum Pt 100 Ohm RTD

Nickel Ni 120 Ohm RTD

min. span 20 Ohms ...max. span 200 Ohms min. span 24 Ohms....max. span 240 Ohms

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

0-5 / 10 & 1-5 V

 $Class \pm 0.5\%$

ontrolin

OUTPUT Rated value mA

Rated value volts

ACCURACY

ADJUSTMENT Zero Span

± 2% ± 10%

AUXILIARY A.C. Voltage

D.C. Voltage

115 / 230 / 400 V (± 25% / 45-65 Hz / < 2VA) 24 / 48 / 110 V (± 20% / galvanically isolated / <3W)

WEIGHT & CASE SIZE Approx. 0.3 kg. 55mm case

NOTE

No isolation is provided between input and output

ORDERING INFORMATION

Product CodeRTDTempO/pAuxFreq OptionsM100-RTDPt 1000-250°C5 mA230V50Hz

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 temperature other than 23°C

CONNECTION DIAGRAM



M100-RTD