

REMOTE RESISTANCE

TECHNICAL SPECIFICATION

INPUT

| | |
|----------------|---------------------------------|
| Rated range | min. 100 ohms.... max. 50 kOhms |
| Sensor current | min. 20uA.... max. 10mA |
| Sensor voltage | 1 Volt |
| Working range | 0-100% R_N |

OUTPUT

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

ADJUSTMENT

| | |
|------|---------|
| Zero | 0-35% |
| Span | 65-100% |

AUXILIARY

| | |
|--------------|--|
| A.C. Voltage | 115 / 230 / 400 V ($\pm 25\%$ / 45-65 Hz / < 2VA) |
| D.C. Voltage | 24 / 48 / 110 V ($\pm 20\%$ / galvanically isolated / < 3W) |

WEIGHT & CASE SIZE Approx. 0.4 kg. 55mm case

NOTE

No isolation is provided between input and output

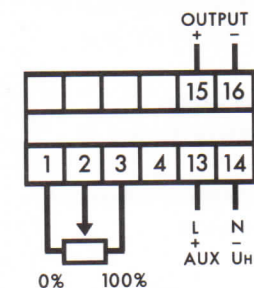
ORDERING INFORMATION

| Product Code | Input | Output | Aux. Freq. | Options |
|--------------|--------|--------|------------|---------|
| M100-RPN | 2 kOhm | 0-20mA | 230V | 50Hz |

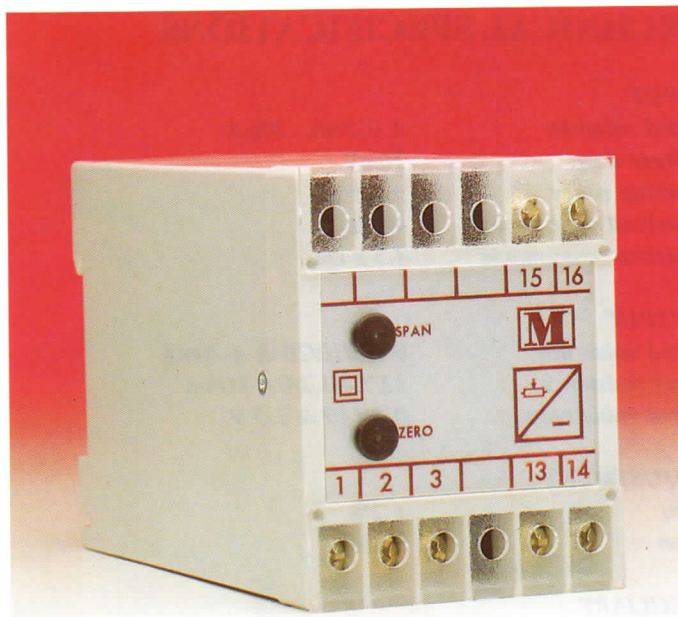
OPTIONS

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 temperature other than 23°C

CONNECTION DIAGRAMS



M100RPN



SELECTION GUIDE

M100-RPN Resistance measurement

TYPICAL APPLICATIONS

The M100-RPN is designed to measure the resistance of 3 wire potentiometers, where the resistance value is proportional to the position of the wiper of the potentiometer. The output value from the M100-RPN is directly proportional to the resistance value at the wiper.

A typical application is monitoring remote resistance of potentiometer used in manual valve control.