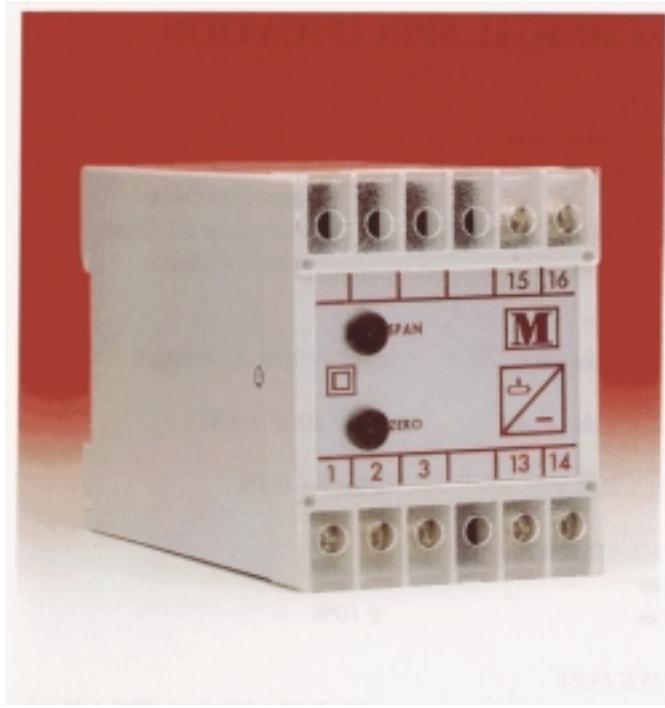


REMOTE RESISTANCE



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

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.

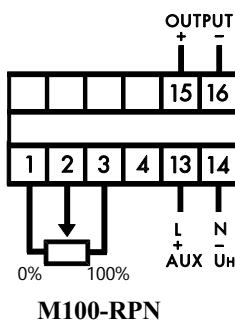
ORDERING INFORMATION

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 DIAGRAM



Panel Components & Systems

GENERAL SPECIFICATIONS

ENVIRONMENTAL

<i>Working temperature</i>	0 to +60 deg C
<i>Functional temperature</i>	-25 to +70 deg C
<i>Storage temperature</i>	-55 to +85 deg C
<i>Temperature coefficient</i>	0.02% per deg C (100 ppm / °C)
<i>Relative humidity</i>	95% non condensing
<i>Class of climate</i>	HSE complying with DIN 40040 -3 complying with VDE/VDI 3540

INSULATION

<i>Test voltage</i>	4kV RMS 50Hz 1min. between Input / Case / Auxiliary / Output
<i>Impulse test</i>	EMC 5kV transient complying with IEC 801 / EN55020
<i>HF interference test</i>	EHF 2.5kV 1MHz complying with IEC 255-4
<i>Protection class</i>	II complying with IEC 348 BS 4753 / DIN 57411 / VDE 0411

APPLIED STANDARDS

<i>General</i>	IEC 688 / BS 6253 / VDE/ VDI 2192
<i>Safety</i>	BS EN61010 DIN 57411 / VDE 0411 ANSI C37
<i>Surge withstand</i>	IEC 801 / EN 55020 ANSI C37-90a
<i>Radio screening</i>	RFI degree N complies with VDE 0875
<i>EMC</i>	Emissions EN50081-2 Immunity EN50082-1

ACCURACY

<i>Class</i>	±0.2 % complying with IEC 688
<i>Calibration temperature</i>	23°C
<i>Temperature coefficient</i>	0.01% / °C (100 ppm / °C)
<i>Stability</i>	0.05 % per annum non cumulative
<i>Warm up time</i>	<15 min

OUTPUT

<i>Rated value</i>	See individual product pages
<i>Load resistance mA</i> <i>(Unless otherwise stated)</i>	1mA <15 kOhm 5mA <3 kOhm 10mA <1.5 kOhm 20mA < 0.75kOhm 4-20mA < 0.75kOhm
<i>Load resistance volts</i> <i>(M100-VA1,VA3 only)</i>	1, 5 & 10 volts >1 kOhm 1, 5 & 10 volts > 50kOhm
<i>Load influence</i>	<0.1 %
<i>Ripple</i>	<0.5% peak-peak at full load
<i>Response time</i>	<200 msec for 0-99 % at full load
<i>Overload</i>	<2 x rated value at full load
<i>No load voltage</i>	<27 V

ENCLOSURE

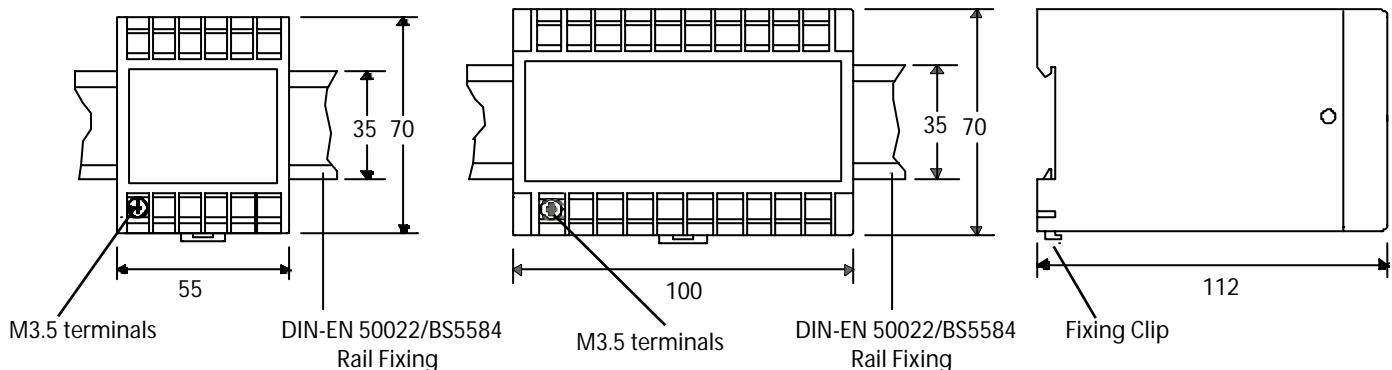
<i>Fixing</i>	<i>Snap on to DIN rail 35 x 7.5 mm complies with DIN-EN 50022 BS 5584</i>
<i>Mounting</i> <i>Enclosure Code</i>	<i>Any position Case IP 50 / terminals IP 30 Complies with IEC 529 BS 5490 DIN 40050</i>

APPROVALS

c.U.L. Approval *File No E157034*

CASE DIMENSIONS

All Dimensions in mm



Panel Components & Systems