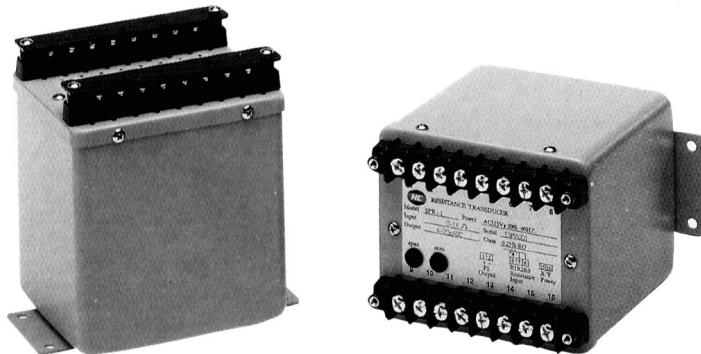


# Resistance Transducer

## Model SPR



- ⊙ Standard output with 0 to 1 mAdc;  
Option on request
- ⊙ Dual isolated output ( SPR-2 ) eliminating  
ground loops effect
- ⊙ AC 1800V input / output / isolation meets  
power series requirement
- ⊙ Meets IEEE SWC test
- ⊙ Three wires configuration eliminating wire  
resistance

**MODEL ....SPR** – 1 single output  
SPR – 2 dual outputs

## Specification

<b>1.Accuracy</b>	0.25% RO / $23 \pm 3^{\circ}\text{C}$
<b>2.Input ( each element )</b>	
Range	0 – 50 / 0 – 100 / 0 – 200 / 0 – 500 / 0 – 1K / 0 – 2K / 0 – 5K / 0 – 10K / 0 – 20K ohm ... range / order on request
Configuration	Three wires
Sensing	DC constant current
Protection	Full protection for SURGE, EMI & RFI
<b>3.Output ( isolated with input )</b>	
SPR – 1	Single output
SPR – 2	Dual outptus / isolated each other (600Vdc)
Range	0 – 1 / 0 – 5 / 0 – 10 / 0 – 20 / 4 – 20 / 0 – 50 / 10 – 50 mA 0 – 1 / 0 – 5 / 1 – 5 / 0 – 10 / 2 – 10V Standard calibration 0 – 1 mA vs required input range Option calibration under required range
Driveability	> 10Kohm for 0 to 1 mA standard output > 10V for current output mode > 10mA for voltage output mode
Output impedance	> 30 Mega ohm
Response time	< 400 ms from 0 to 99% RO at operating
Ripple	< 0.5% P-P RO
Long term stability	< 0.5% RO per year
Temperature stability	< 0.015% per degree C, from 0 to 55°C
Adjustment	Span, zero $\pm$ 5% ro minimum
Protection	No damage ... open or short; full protection of SURGE, EMI, RFI
Magnetic effect	< 0.04% at center 400 A-T / M

#### 4. Operation condition

Environment	
Temperature	-5 to 60°C
Humidity	20 to 99% RH non condensed
Elevation	Under 3000 meters
Magnetic field	500 A-T / M
Dielectric strength	4KV AC rms 1 minute between input / output / power / case IEC 688 Impulse test ANSI C37.90/1989, IEEE 587/1983, IEC 255-3, 6KV ( 1.2 x 50 us ), 3KA ( 8 x 20 us ) .... current only
Surge test ( ring wave )	IEEE 587/1983 ( 3KV - 0.5us / 100KHz ) IEC 255-3 ( 2.5KV - 025ms / 1MHz )
Power supply	AC 115V ± 20%, 50 - 70Hz, < 3VA Option AC 230V, DC 12 / 24 / 48 / 125V

#### Terminal Connection

Standard connection three wires

If for two wires application, short terminal 7 & 8

