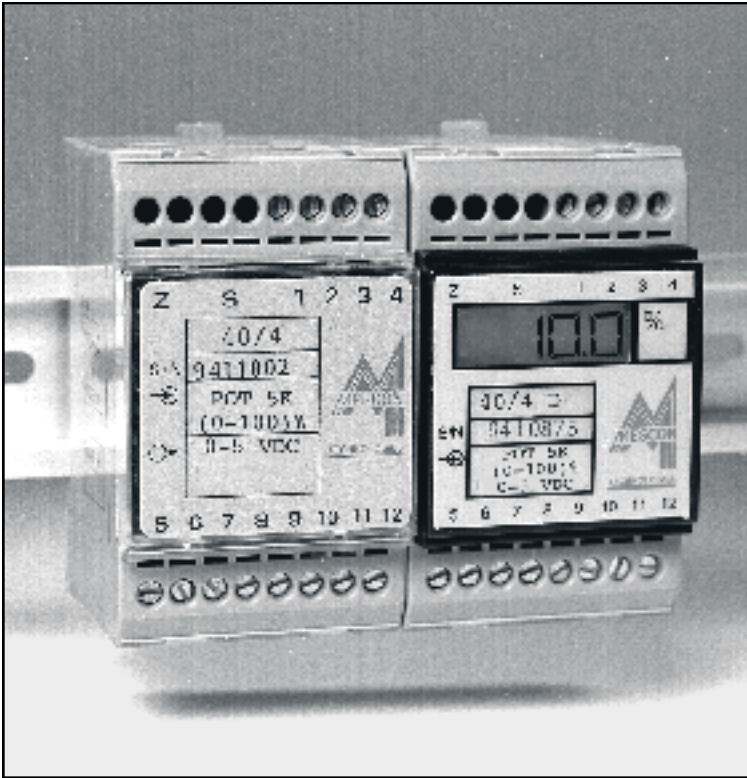


Potentiometric Input Signal Conditioners

Precision, Isolated, Universal

Model 40/4, 60/4, (L)



Models 40/4 and 60/4 are precision Potentiometric signal conditioners which provide triple galvanic isolation between their input, output and power supply circuits.

They include the necessary circuitry for amplification and

processing of signals from potentiometers and slidewires. An optional LCD indicator is available for some units to facilitate local indication of the measured signal.

The 40/4 and 60/4 can be easily ranged without requiring special tools or board modifications. They are both members of Mescon's family of advanced Universal Input Transmitters and Signal Conditioners which can easily be configured to accept other inputs such as RTD's, Thermocouples, DC mV/mA/Volt.

FEATURES:

- 4-wire signal conditioners
Series 40 - DC Power Supply
Series 60 - AC Power Supply
- Input/Output/Supply Isolation
- User rangeable
- Over 1000 Volts Isolation
- Wide ranging ZERO and SPAN
- DIN rail mounting

AVAILABLE OPTIONS:

- 3-1/2 digit backlit LCD indicator
- Sensor input linearization
- NEMA 4X or NEMA 7 enclosure



MESCON
Technologies, Inc.

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Potentiometric Input Signal Conditioners

Precision, Isolated, Universal

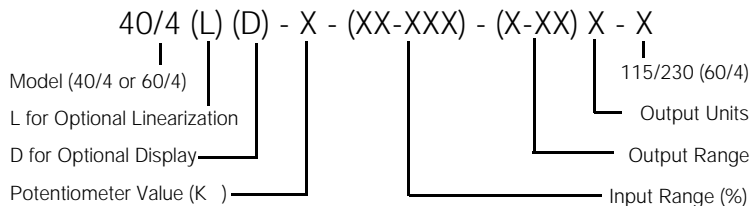
Model 40/4, 60/4, (L)

SPECIFICATIONS:

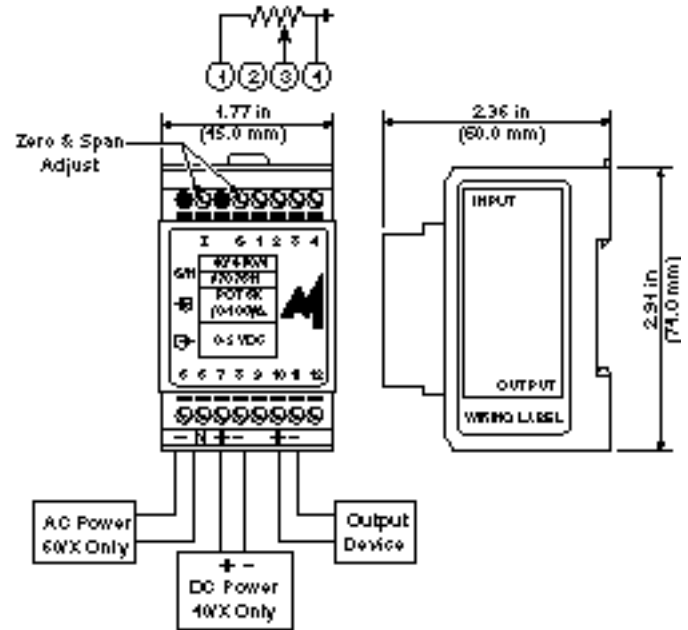
Input	3-Wire Potentiometer/Slidewire
Resistance (end-to-end).....	100 min., 20K max.
Minimum Span	5% of end-to-end resistance
Excitation.....	100mV, nominal
Linearity (BSLF)	Better than $\pm 0.1\%$ of span
Temperature Stability.....	$\pm 0.02\%$ of span/ $^{\circ}$ F
Output	Voltage: 0-1V, 0-2V, 0-5V, 0-10V, $\pm 5V$, $\pm 10V$ std. Current: 4-20mA, 0-20mA, 0-1mA, 1-5mA std.
C.M.R.R.....	>120db, DC to 60 Hz
Isolation	1000VDC or peak AC (Input/Output/Supply)
Power Supply.....	40/4: 24VDC $\pm 20\%$ 60/4: 115 or 230 VAC $\pm 10\%$, 50-60Hz
Adjustments.....	> $\pm 25\%$ for both Zero & Span
Operating Temperature.....	-20 $^{\circ}$ C to 70 $^{\circ}$ C, (0 $^{\circ}$ F to 160 $^{\circ}$ F)
Mounting.....	DIN rail (35mm) or panel (with adapter)
Humidity	0-95%RH, non-condensing

All specifications are subject to change without notice.

ORDERING INFORMATION



Please request our ordering and calibration diskette describing the rest of Mescon's products.



Wiring Instructions:

1. Connect the sensor/input leads according to the diagram above.
2. Connect the output leads to terminals 10 (+) and 11 (-).
3. 40/4 only - connect the DC power supply leads to terminals 7 & 8.
4. 60/4 only - connect the AC supply leads to terminals 5 & 6.

Calibration and Adjustments:

It is assumed that the unit undergoing calibration has been properly ranged at the factory or workshop.

1. Connect a potentiometric simulator to the input terminals. Observe for proper polarity.
2. Connect the power supply to the power terminals (see diagram). Observe for proper polarity.
3. Connect the input terminals to a precision digital indicator. Turn the power supply on. **For optimum performance, allow 15 minutes of warm-up time.**
4. Set the input for the desired minimum signal. Adjust the ZERO pot for the specific output low end.
5. Set the input for the desired maximum signal. Adjust the SPAN pot for the specific output high end.
7. Repeat steps 4 and 5 until no further adjustment is needed for the desired accuracy.

Note: If the unit cannot be calibrated for the specified range, it should be returned to the workshop for proper ranging.



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