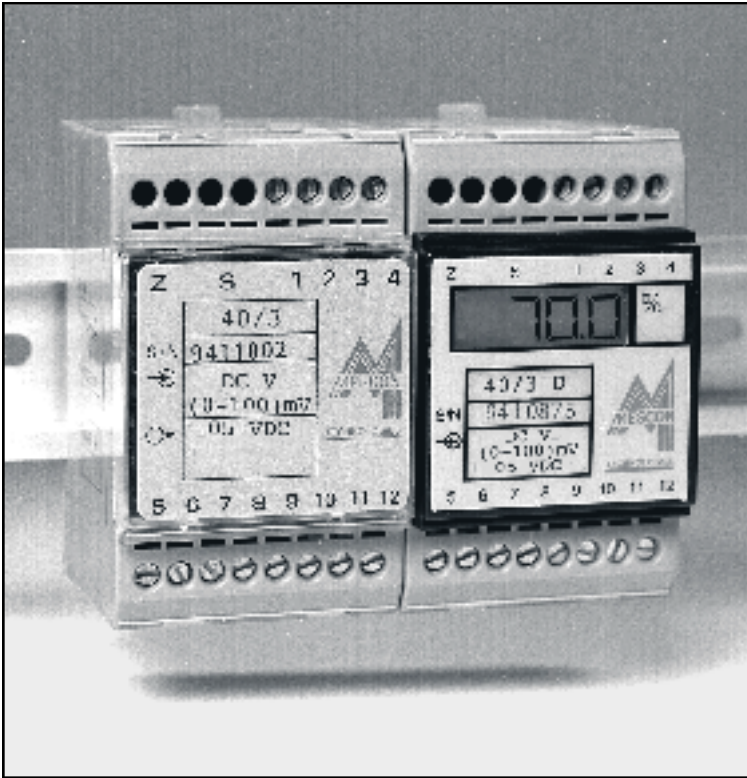


DC mV/mA/Volt Input Signal Conditioners

Precision, Isolated, Universal

Model 40/3, 60/3, (L)



Models 40/3 and 60/3 are precision DC input 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 DC mV, mA or Voltage signals from various sensors and signal sources. Model 40/3L and 60/3L also provide input linearization to correct for non-linearity of many input sensors. An optional LCD indicator is available for some models for local indication of the output in engineering units.

The 40/3 and 60/3 can be easily ranged without requiring special tools or board modifications. They are 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, and Potentiometers.

FEATURES:

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

AVAILABLE OPTIONS:

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



MESCON
Technologies, Inc.

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DC mV/mA/Volt Input Signal Conditioners

Precision, Isolated, Universal

Model 40/3, 60/3, (L)

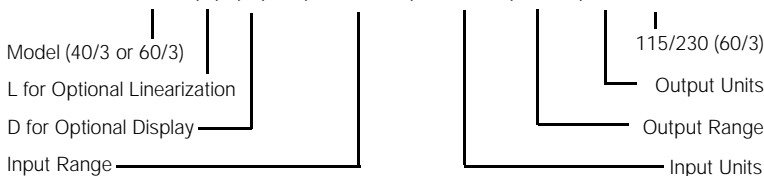
SPECIFICATIONS:

Input	DC mV, mA, or Volts
Input Range.....	Voltage: 5mV min, 300V max. (500 opt.) Current: 10µA min, 100mA max (200mA opt.)
Linearity	Better than ±0.03% of span
Input Impedance	10M for inputs 200mV 1.0M for inputs >200mV
Voltage Drop (mA input).....	250mV max, for input 100mA
Temperature Stability.....	±0.01% of span/°F (20mV span)
Output	Voltage: 0-1V, 0-2V, 0-5V, 0-10V, ±5V, ±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.....	40/3: 24VDC ±20% 60/3: 115 or 230 VAC ±10%, 50-60Hz
Adjustments.....	>±25% for both Zero & Span
Operating Temperature.....	-20°C to 70°C, (0°F to 160°F)
Mounting.....	DIN rail (35mm) or panel (with adapter)
Humidity	0-95%RH, non-condensing

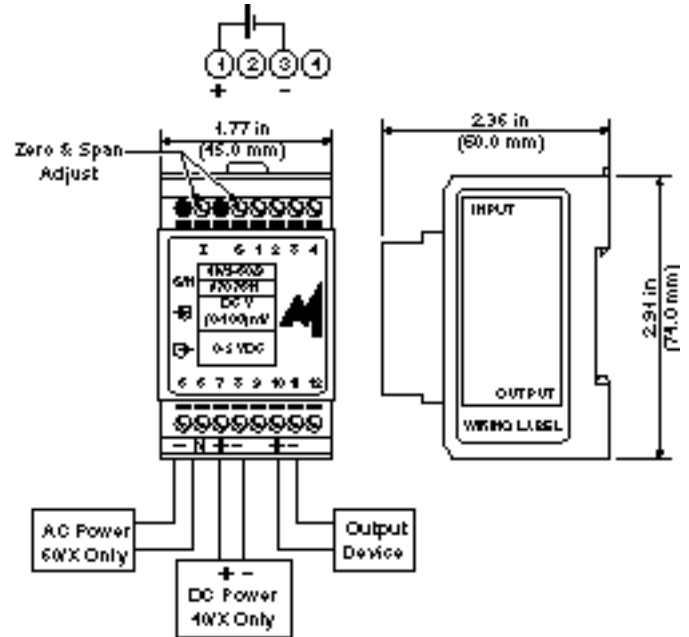
All specifications are subject to change without notice.

ORDERING INFORMATION

40/3 (L) (D) - (XX-XXX) - X - (X-XX) X - X



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. 40/3 only - connect the DC power supply leads to terminals 7 & 8.
4. 60/3 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 DC voltage/current 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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