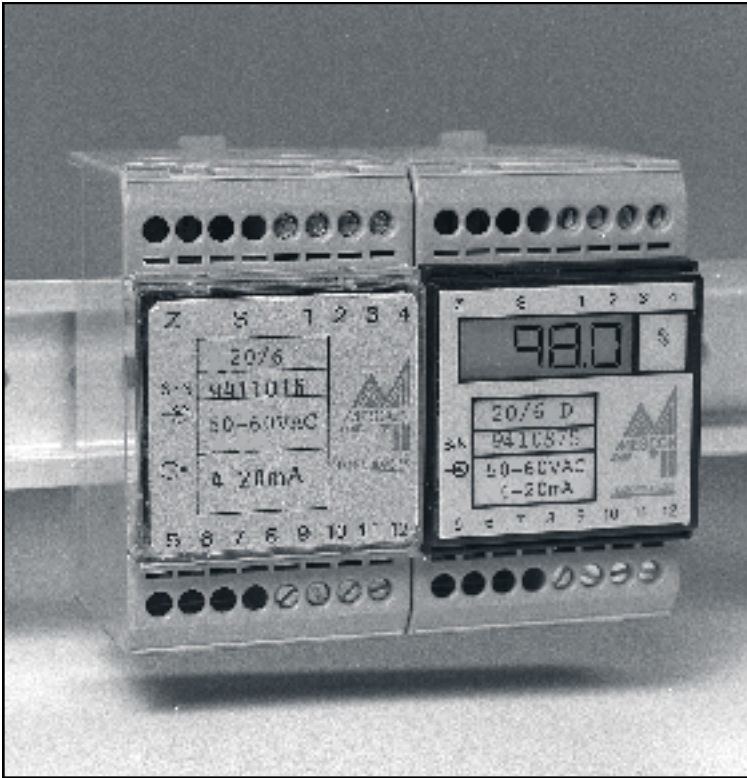


AC Amps/Volts 2-Wire Transmitters Precision, Isolated, Rangeable Model 20/6, (N)



The model 20/6 is a precision, loop powered 2-wire transmitter with galvanic isolation between its input and the current-loop output signal. The 20/6 provides the necessary circuitry for amplification, rectification and processing of AC Current or Voltage signals from various sensors and signal sources. An optional LCD display is available on the 20/6 to indicate the output in Engineering Units.

The 20/6 can be easily ranged without requiring special tools or board modifications. The model 20/6N is a special version intended for very low current/voltage measurements and higher voltages over a wider frequency range of up to 2KHz.

A TEST terminal provides a 40-200mV signal proportional to the 4-20mA output. Applying a DVM to the TEST terminals allows for monitoring and verification of the output without interrupting or disconnecting the current loop.

FEATURES:

- 2-wire transmitter system
- Eliminates ground loop errors
- Over 2000 Volts Isolation
- Wide ranging ZERO and SPAN
- Output TEST terminals
- DIN rail mounting

AVAILABLE OPTIONS:

- 3-1/2 digit backlit LCD indicator
- Input currents to 12 Amps
- Input voltage to 750 Volts
- NEMA 4X or NEMA 7 enclosure



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AC Amps/Volts 2-Wire Transmitters

Precision, Isolated, Rangeable

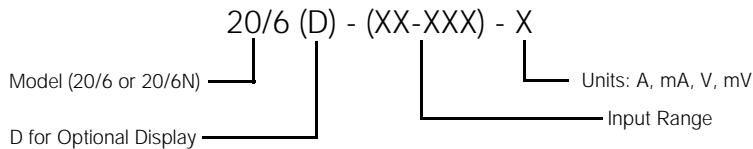
Model 20/6, (N)

SPECIFICATIONS:

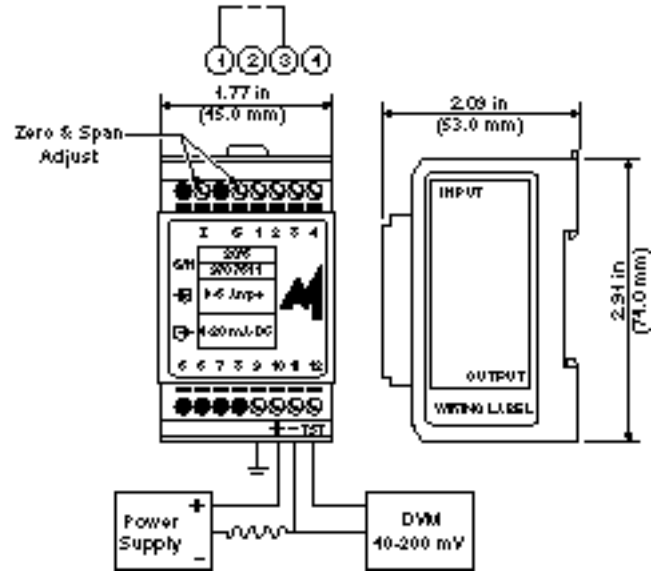
Input Range: 20/6 (50-60 Hz).....	Current: 250mA min, 5A max. Voltage: 50V min, 300V max.
Input Range: 20/6N.....	Current: 10µA min, 250mA max. Voltage: 100mV min, 500V max.
Zero Suppression.....	to >50% of full range
Output.....	4-20mA, limiting at <28mA
Supply Voltage: 20/6.....	8-36 VDC (10-60 optional)
Supply Voltage: 20/6N.....	10-50 VDC (reverse polarity protected)
Input Voltage Drop.....	20/6: <50mV for 5A input
Input Impedance.....	20/6N: 1 M (for voltage input)
Isolation.....	20/6: 2000VDC or peak AC 20/6N: 1000VDC or peak AC
Linearity (BSLF).....	20/6: ±0.25% of span max. 20/6N: ±0.15% of span max.
Conversion Method.....	AC averaging
Adjustments.....	>±25% for both ZERO and SPAN
Temperature stability.....	Better than ±0.02% of span/°F
Operating Temp.....	-20°C to 70°C, (0°F to 160°F)
Humidity.....	0-95%RH, non-condensing
Mounting.....	DIN rail (35mm) or panel (with adapter)
Maximum Load.....	$R_{max} = (V_{supply} - 10V) \div 20mA$

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 an input lead to terminal 1.
2. Connect the second lead to terminal 3.
3. Connect the positive supply lead to terminal 10 (+V).
4. Connect the negative supply lead to terminal 11 (-V).
6. Connect the system ground to terminal 9.
7. Turn the power on and observe input/output parameters

Note: To monitor the output without breaking the current loop, connect a digital voltmeter between terminal 12 (TST) and terminal 11 (-V). An internal 10.0 ohm resistor in series with the current loop provides a 40-200mV signal for the 4-20mA current output.

Calibration and Adjustments:

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

1. Connect an AC calibrator to the 20/6 input terminals
2. Complete the output loop using a power supply and a precision digital current indicator. Turn the power on.
3. Set the wiper to the desired minimum position and adjust the ZERO pot until the current indicator reads 4.00mA.
4. Set the wiper to the desired maximum position and adjust the SPAN pot until the current indicator reads 20.00mA.
5. Repeat steps 3 & 4 until no further adjustment is needed.

Note: If the transmitter can not be calibrated to the desired range, it should be returned to the workshop for proper ranging.



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