



Precise Sensors

"Defining Higher Expectations"

3/64 DIN Digital Meter

Model 4610

Description

The Model 4610 is available with a built-in, isolated excitation supply to power two- or four-wire transmitters. The 4610 also provides a full-size 14.2mm (0.56"), red LED display, yet is housed in a 3/64 DIN case. Five signal ranges can be selected via push-on jumpers. Precision potentiometers are readily accessible behind the lens to provide zero and span adjustments of 2000 counts each. Accuracy is 99.9% of reading. Many design features are incorporated to ensure compliance with the latest worldwide safety specifications.



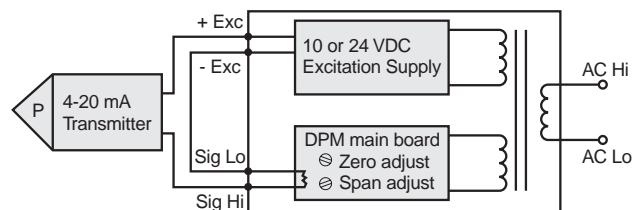
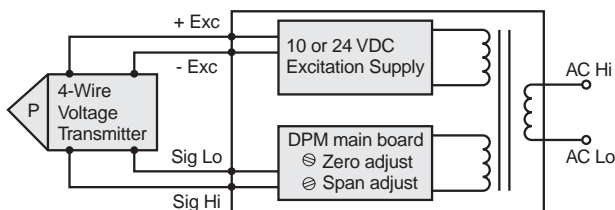
Features

- Zero and span adjustments of 2,000 counts each
- $\pm 1,999$ -count display
- Bright, 14.2mm (0.56") LED display
- EMI/RFI Filter for AC power
- Removable screwclamp connector

Options

- Isolated transmitter excitation supply, output levels of 24VDC at 20mA or 10VDC at 30mA are jumper selectable
- 4-20mA, 0-0.2VDC, 1-5VDC, 0-10VDC, 0-100VDC signal ranges
- 24, 100, 115 or 230 VAC power supply
- 7-32 VDC, non isolated power supply
- NEMA-4 Splash-proof lens cover

Application Examples



Model 4610 Specifications

Accuracy @ 25°C

Maximum error ±0.05% of reading ±1 count
 Zero tempco ±0.01% of offset/°C
 Span tempco ±0.02% of reading/°C
 Full scale step response . . 1 second
 Warm-up to
 rated accuracy 30 minutes

Noise Rejection

NMR, SIG HI to SIG LO . .56 dB, 50 to 60 Hz
 CMR, SIG LO to
 PWR GND 120 dB, 50 to 60 Hz
 CMV, SIG LO to
 PWR GND 1500 Vp per HV test,
 354 Vp per IEC spacing

Analog to Digital Conversion

Technique Dual slope, average-value
 Signal integration period . . 100 millisecond
 Read rate 2.5/second

Transmitter Excitation Supply

Output voltage Selectable 10 or 24VDC
 Output current, max 30mA at 10V, 20mA at 24V
 Line regulation ±0.01%/V of AC power
 Load regulation ±0.5%
 Tempco ±0.02%/°C
 Ripple at 50/60 Hz ±0.01%

Display

Type 7 segment, LED (Red)
 Decimal points Three position jumper
 selectable
 Overrange indication Three least-significant digits
 blank

Specifications are subject to change without notice.

Power Options

AC Voltage 24, 100, 115 or 230 VAC
 ±15% @ 2 watts 49-63 Hz
 DC 7-32 VDC Non-isolated

Electrical Connections

POWER AND SIGNAL INPUT

WITH TRANSDUCER		WITHOUT TRANSDUCER	
EXCITATION		EXCITATION	
AC Power		DC Power	
1	Signal high	1	Signal high
2	Signal low	2	Signal low
3	+ Exc	3	Hold
4	- Exc	4	Digital ground
5	AC Ground	5	- DC
6	AC Low	6	+ DC
7	AC High	7	No connection

Environmental

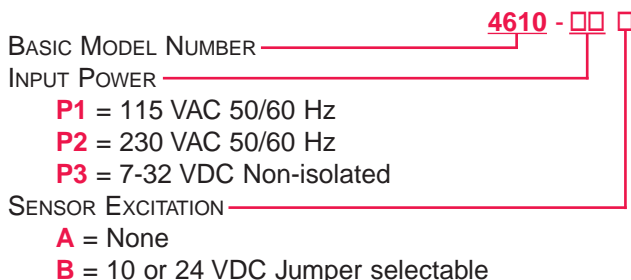
Operating
 temperature 0°C to 60°C
 Storage
 temperature -40°C to 85°C
 Relative Humidity 95% at 40°C,
 non-condensing

Mechanicals

Dimensions 3/64 DIN size front panel
 0.94" H x 2.84" W x 4.6" D
 (24 x 72 x 117mm)
 Panel cutout 0.87" x 2.68"
 (22.2 x 68mm)
 Weight 7 oz. (200 g)
 Case material 94V-1 UL-rated Noryl SE-1

How to order

Example: 4610 - P1 B



Note: Not available with input power P3 (7-32 VDC)

Options

S3 = Provides mating indicator to pressure sensor and 13 point NIST traceable calibration certificate

Accessories

SPC-1 = NEMA 4 Splash-proof lens cover
 E2001 = Power cord, 115 VAC



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