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3760

DC VOLTAGE PANEL INSTRUMENT

DIGITAL PANEL INSTRUMENT WITH ANALOG SIGNAL CONDITIONING AND CONTROLS. THE 3760 IS BASED ON YEARS OF FIELD PROVEN PERFORMANCE OF THE SERIES 3000 METERS.

Incorporating the Series 3000 perfomance along with updated setup controls and ease of use features, the Model **3760** DC VOLTAGE & 4-20mA Input Panel Instrument conditions most DC generated sensors, such as Draw Wire, Resistive, DC/DC LVDT and other DC or 4-20mA based sensors to deliver stable - repeatable and accurate results with a bright LED digital display and a dynamic, selectable hi-level analog output signal for front end use with a PLC, Computer or Data Acquisition system. The 3760 incorporates setup controls and adjustments behind the front panel - for the user to configure the meter for DC or 4-20mA signal input. Controls include wide zero, gain, analog filter settings, voltage outputs selection of ±5 VDC or ±10 VDC, and 4-20 mA output, and display trimming. The 3760, with its stable display and selectable amplified signal, includes an independent - high speed analog signal for dynamic applications.

- True Analog Operation
- TARE controls for commanded analog "zero" offset capability
- Selectable Range settings from 50 millivolts to 200 Vdc input signal, 4-20 or 4-12-20 mA
- Excitation of +/- 12 Vdc for sensors requiring power sourceDraw wire, DC to DC LVDTs, resisitve sensors.

You can quickly configure the **3760** via the simple controls located behind the front-panel. Once configured, the user maintains front panel access to the unit's fine Zero, Span and Calibration controls. For quick "zeroing"... Front or Rear panel TARE controls can be used to Zero the Display and the amplified analog output signal.

The **3760** conditioner is based on the legacy of the 3263 and other DC signal conditioning product from Daytronic which feature superior signal conditioning and selectable analog filter for stable and repeatable analog signals for accurate measurements. For analog signal response suited for any application, the output signal is routed through the selectable low, medium or high - low pass analog filter circuits for repeatable perfomance and readability.

- regulated, DC excitation
- low range for sensitive sensors - 50 mV full scale
- Accepts any DC signal, grounded or differencial
- Internal shunt circuit for 4-20 mA or 4-12-20 mA signal inputs
- "Hardware" operation, no computer or software configuration required.

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SPECIFICATIONS

Case: Each unit is housed in a single piece of heavy gage aluminum and contains slide rails for panel mounting

Physical: 2.84" H x 5.68" W x 7.06" D, weight: 3.25 Lbs

Power Requirements: 90-250 VAC, 47-63 Hz @ 10W max

Operating Temperature Range: 0° + 55 °C

Operating Relative Humidity: 5 to 95% noncondensing

Transducer Types : Any DC voltage input, floating or grounded. Low level current - 4-20 mA

Input Ranges (Nominal, Full Scale): 50 mV to 200 VDC - 4-20mA or 4-12-20mA

Analog Output: Sectable +/- 0 to 5; +/- 0 to 10 Vdc. 4 - 20 or 4-12-20 mA. 20% over-range on voltage only outputs

Analog Filters: 2, 20 or 200 Hz low pass (Selectable)
5000 Hz low pass, fixed - Fast Output terminal

Excitation: DC Voltage - +/- 12 Vdc @ 70 mA

Accuracy: typical +/- 0.02%, limited only by calibration accuracy

Tare Offset: User enabled front/ rear control. Tare range - approx. 60% of Full Scale.

Front-Panel TARE Indication :
Un-lit: No TARE has been invoked
Red: Invalid / Error when TARE applied (possible out of range condition)
Green: Valid TARE has been applied
Yellow: In process of applying the TARE command

Logic Input: TARE, Remote Cal and HOLD; common true

Hold Command: Applied and released via logic input

Data Display: 6-Segment Red LEDs; Count by 1,2 or 5 depending on display range settings: maximum count of 199950.
Count by 1 in 5000, 2 in 10000 or 5 in 20000, with dummy zero.
Note: Display contains span controls to adjust display reading independent of the analog output signal.

Wiring: removable screw terminal connectors, provided

Conformity
2014/30/EU Electromagnetic Compatibility
2014/35/EU Low Voltage Safety
ISO 9001:2008 certified

CE

Rear Panel View - screw terminal connectors, provided