DIS471B-R
DC INPUT
FIELD RANGEABLE
PROCESS INDICATOR

DESCRIPTION
The DIS471B-R provides a 3½ digit display proportional to a DC input signal. Span of the input is selected by a moveable jumper on the rear of the housing. The display controls are wide-ranging so that it can be calibrated to display engineering units. A complete set of engineering labels is sent with each DIS.

All controls for calibration of the display are accessible by removing a gasketed front access panel. DIS instruments are gasketed and, when properly installed, are NEMA-4 rated for being waterproof.

Terminations are made to a screw terminal connector on the rear of the case.

TERMINATIONS
Connect the GROUND lug on the instrument's rear panel to earth ground.

All DIS models should be properly grounded for safety and for minimum noise pickup. Connect the GROUND lug on the instrument's rear panel to earth ground.

MOUNTING
The DIS471B-R is designed to be mounted from the front panel through a standard horizontal 3.62” X 1.77” (1/8 DIN) cutout.

Two mounting cam-screws allow the se-

two panel counterclockwise until the cams move far enough toward the rear to clear the panel.

TERMINATIONS
To gain access, simply loosen the two cam-lock screws and remove the gasketed access panel. DIS instruments are gasketed and, when properly installed, are NEMA-4 rated for being waterproof.

WARRANTY
The DIS Series of products carry a limited warranty of 5 + 5 years. In the event of a failure due to defective material or workmanship, during the 5 year period, the unit will be repaired or replaced at no charge. For a period of 5 years after the initial 5 year warranty, the unit will be repaired, if possible, for a cost of 10% of the original purchase price.

Recalibrate display as described above. Sometimes the effective range can be changed by recalibrating the display; for example, a display range of 0.0 to 150.0 at 0 to 10 volts input is equivalent to 00.0 to 75.0 at 0 to 5 volts.

The display will track inputs above and below the stated range. For example, a display range of 00.0 to 150.0 at 0 to 10 volts input is equivalent to 00.0 to 75.0 at 0 to 5 volts.

UPS/DS DOWNSCALE DISPLAY ACTION
The normal/reverse switch at the front of the instrument allows either normal display action (reads upscale with increasing input) or reverse (reads downscale with increasing input).

For example, if a display with 4/20 mA input is calibrated to read 00.0 to 100.0, reverse action will produce readings of 00.0 at 4 mA, -100.0 at 20 mA. Recalibration by offsetting the zero adjustment allows a reading of +100.0 at 4 mA, 0.00 at 20 mA.

To change the display action, simply slide the switch (to the left for reverse, to the right for normal). Recalibrate per "Changing the Display Range" above.

For reverse action set the input for the low-end value and adjust the display zero control for the desired reading on the display. Advance the input to the full scale value and adjust the display span control for the desired reading. For maximum accuracy, repeat the procedure once or twice as the controls may interact slightly.

EXAMPLE: For a display of 00.0 to 100.0, the following switches should be ON:
DISPLAY SPAN: SWITCH3
DECIMAL POINT: SWITCH8
OFFSET % AND POLARITY: NONE

EXAMPLE: For a display of 25.0 to 50.0, the following switches should be ON:
DISPLAY SPAN: SWITCH2
DECIMAL POINT: SWITCH8
OFFSET %: SWITCH3
OFFSET POLARITY: SWITCH5

Set the input for the low-end value and adjust the display ZERO control for the desired reading on the display. Advance the input to the full scale value and adjust the display SPAN control for the desired reading.

For maximum accuracy, repeat the procedure once or twice as the controls may interact slightly.

For reverse action set the input for the low-end value and adjust the display zero control for the desired reading on the display. Advance the input to the full scale value and adjust the display span control for the desired reading. For maximum accuracy, repeat the procedure once or twice as the controls may interact slightly.

Changing the Display Range
To change the input range replace the rear connector on the rear of the case.

Terminations are made to a screw terminal connector on the rear of the case.

All DIS models should be properly grounded for safety and for minimum noise pickup. Connect the GROUND lug on the instrument's rear panel to earth ground.

Recalibrate display as described above. Sometimes the effective range can be changed by recalibrating the display; for example, a display range of 0.0 to 150.0 at 0 to 10 volts input is equivalent to 00.0 to 75.0 at 0 to 5 volts.

The display will track inputs above and below the stated range. For example, a display range of 00.0 to 150.0 at 0 to 10 volts input is equivalent to 00.0 to 75.0 at 0 to 5 volts.

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### SPECIFICATIONS

**INPUT RANGE**
- **Voltage**
  - ±32 mV to ±128 VDC
- **Current**
  - ±0.8 mA to ±1 ADC

**INPUT IMPEDANCE**
- **Voltage**
  - 1 megohm
- **Current**
  - 0.8 mA to 32 mA: 61.9 ohm
  - 32 mA to 256 mA: 4 ohm
  - 256 mA to 1 A: 0.25 ohm

**ACCURACY**
- ±0.05% of span plus 1 digit

**LINEARITY**
- ±1 digit

**COMMON MODE REJECTION**
- 100 dB, DC to 60 Hz

**OPERATING TEMPERATURE**
- 14°F to 140°F (-10°C to 60°C)

**TEMPERATURE STABILITY**
- ±0.02% of span°C max

**INPUT-TO-LINEBREAKDOWN VOLTAGE**
- 1500 VAC rms

**DISPLAY**
- **Digit Size**
  - .56" LED, 3½" digits, ±1999 indication
- **Decimal Point**
  - 1.9.9.9
- **Control Range**
  - Zero: -1999 to +1999
  - Span: min span 100/max 1999
- **Update Rate**
  - 3/sec
- **Reverse Display**
  - Switch selectable
  - Reads downscale with increasing input

**POWER**
- 24 VDC ±10% (2 W max)

### CASE DIMENSIONS [INCHES [mm]]

**FRONT VIEW**

**TOP VIEW**

**RIGHT SIDE VIEW**

**BACK VIEW**

**PANEL CUTOUT**

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