

DESCRIPTION

The DIS871-24 and DIS971-24 provide a display, optional isolated DC output voltage or current proportional to a DC input signal, and optional alarm setpoints. All Wilkerson products are designed with RFI filters and lightning protection to reduce susceptibility to electrical noise and damage by lightning. The digital display utilizes an auto-zero dualslope integrating A/D converter for accuracy and stability. The instrument contains a 24 VDC transmitter power

SPECIFICATIONS

INPUT RANGE 4/20 mA **INPUT IMPEDANCE** 61.9 ohms TRANSMITTER POWER SUPPLY 24 VDC regulated, 30 mA max **OPTIONS SA, DA SETPOINT** each alarm 0 to 100% of span DEADBAND 0.25% to 100% of span RELAY CONTACTS (spdt) Resistive Load 5 A max, 150 W max, 240 VAC max 30 VDC max Inductive Load 1/8 HP max at 120/240 VAC **OPTION TX OUTPUT RANGE** Voltage select any range between ±10 V,10 mA max load (min span 0.2 V) Current select any range from 0 to 20 mA max, >24V compliance (1200 ohms max at 20 mA) (min span 1 mA)

4/20 mA DC INPUT PROCESS INDICATOR WITH 24 VDC POWER SUPPLY FOR TWO-WIRE TRANSMITTER FEATURES

DIS871-24 AND DIS971-24

Provides 3½ Digit or 4½ Digit Display

- Display Calibrated in Engineering Units (°F,°C,%,PSI, etc.) Proportional to DC Input
- Mount, Wire and Calibrate from Front
 Fully Isolated Output and/or 0, 1, or 2
- Alarms
 Alarm Setpoints Adjustable without
- Disturbing Transmitter Output • Fail-Safe Alarm Operation

supply specifically designed for use with two-wire and other 24 VDC powered transmitters.

All controls are accessible by removing the gasketed front access panel. The display controls are wide-ranging so that they can be calibrated to display engineering units. Decimal point selection is made with a switch, also accessible from the front.

A complete set of engineering unit labels is sent with each DIS. Once the display has been adjusted to read the correct engineering units, the alarm LED Alarm Status Indicator

- Adjustable Deadband
- 24 VDC Power Supply for Two-Wire Transmitters
- 4/20 mA Input Range
- Unlimited* Choice of Input / Output Ranges
- Fits Standard ¹/₈ DIN Cutout
- Rated NEMA-4, Splashproof when Properly Installed
- 5 Year Warranty

setpoints can be adjusted without test equipment and without disturbing the output voltage or current.

Either setpoint may be displayed by use of the SP CAL switch. Each setpoint has an LED to indicate alarm status. The alarms have adjustable deadbands. Terminations are made to a screw terminal connector on the rear of the case.

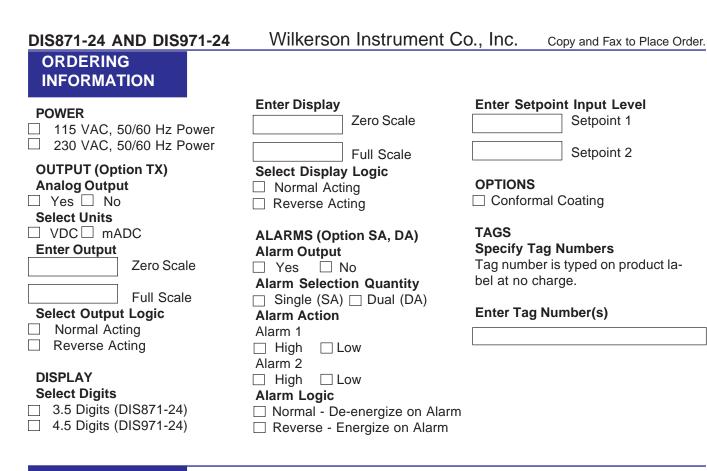
TYPICAL APPLICATIONS

DC process indication, control, monitoring, isolation, DC monitor/ current limit, two-wire excitation.

OUTPUT RIPPLE (Peak-to-Peak) <0.1% of span **ISOLATION** Output / Input >500 megohms Breakdown Voltage >600 VAC rms **RESPONSE TIME** (Range Dependent) < 100 ms ACCURACY ±0.1% of span LINEARITY Display ±0.01% of span Output ±0.025% of span **COMMON MODE REJECTION** 120 dB, DC to 60 Hz **DISPLAY (871)** Digit Size .56" LED, 31/2 digits, ±1999 Decimal Point ±1.9.9.9 **Control Range** Zero ±1999 Span min span 10/max span 2000

DISPLAY (971) Digit Size .56" LED, 41/2 digits, ±19999 Decimal Point ±1.9.9.9.9 Control Range Zero ±19999 Span min span 100/max span 20000 DISPLAY Update 3/sec **OPERATING TEMPERATURE** 14°F to 140°F/-10°C to 60°C **TEMPERATURE STABILITY** ±0.02% of span/°C max POWER 115 VAC ±10%, 50 or 60 Hz (4 W max) 230 VAC ±10%, 50 or 60 Hz (4 W max)

* Within specified range limits.



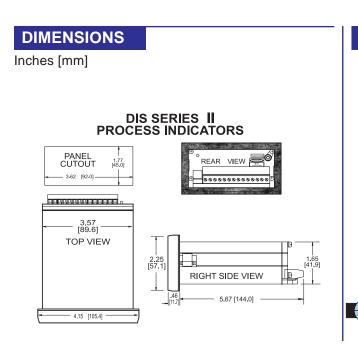
ACCESSORIES

DIS871-24 AND DIS971-24

No accessories available at this time.

MOUNTING

The DIS is designed to be mounted from the front panel through a standard horizontal 3.62 X 1.77 inches ($^{1}/_{8}$ DIN) cutout. Two mounting cam-screws allow the securing of the DIS to the panel from the front.



CONNECTIONS	
TERM 1	Output -
TERM 2	Output +
TERM 3	24 VDC +
TERM 4	24 VDC -
TERM 5	Input +
TERM 6	Input -
TERM 7	Alarm 1 NC
TERM 8	Alarm 1 C
TERM 9	Alarm 1 NO
TERM 10	Alarm 2 NC
TERM 11	Alarm 2 C
TERM 12	Alarm 2 NO
TERM 13	Power AC L1
TERM 14	Power AC L2

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