

DIS474

THERMOCOUPLE INPUT PROCESS INDICATOR

FEATURES

- Provides 3½ Digit Display Calibrated in Temperature
- °C/°F Switch
- Linearized for All Standard Thermocouple Types
- Cold Junction Compensated
- 0.1 Degree Resolution Available (T/C Types J, K, T, E & N)
- Plug-In Card Changes T/C Type & Range
- Fits Standard ¹/₈ DIN Cutout
- Rated NEMA-4, Splashproof when Properly Installed
- 5 Year Warranty

DESCRIPTION

The DIS474 displays temperature as measured by a thermocouple input. 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 dual-slope integrating A/D converter for accuracy and stability.

A unique analog thermocouple circuit with digital linearity compensation provides the optimum combination of resolution and thermocouple linearization.

Linearization is better than $\pm 1^{\circ}$ C from -200° C (-328° F) to the thermocouple's upper limit on all ranges. 0.1° C/ 0.1° F resolution is available for thermocouple types J, K, T, E and N (-199.9° to $+199.9^{\circ}$ C/ $^{\circ}$ F). A temperature-sensing I.C. potted inside the input connector provides optimum cold-junction compensation.

All DIS instruments are gasketed and, when properly installed, are NEMA-4 splashproof. ZERO and SPAN controls are accessible by removing a gasketed front access panel.

A plug-in range card, accessible without opening the case, permits user recalibration for all thermocouple types and ranges. °C or °F is selected using switches accessible from the rear. A rear-panel jumper selects upscale or downscale burnout indication.

A complete set of engineering unit labels is sent with each DIS. Terminations are made to a screw terminal connector on the rear of the case.

TYPICAL APPLICATIONS

Temperature indication and monitoring.

SPECIFICATIONS

INPUT RANGE

Wide

any standard thermocouple type, full temperature range above -200°C (-328°F) to +1999°C/°F

Narrow

-199.9 to +199.9°C/°F types J, K, T, E and N

ACCURACY

Wide
±(0.1% of reading plus
1°C or 2°F)
(Includes T/C linearization)
Narrow
±0.5°C or 0.9°F

BURNOUT INDICATION

jumper selectable upscale/downscale

COMMON MODE REJECTION

120 dB, DC to 60 Hz

ISOLATION

Input-to-Line Breakdown Voltage 1500 VAC rms

DISPLAY

Digit Size
.56" LED, 3½ digits,
±1999°C/°F
switch selectable
Update Rate

Update Rate 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 \pm 10%, 50 or 60 Hz (4 W max) 230 VAC \pm 10%, 50 or 60 Hz (4 W max)

ORDERING INFORMATION

POWER	DISPLAY
☐ 115 VAC, 50/60 Hz Power	Enter Display
☐ 230 VAC, 50/60 Hz Power	Zero Scale
INPUT Select Units	Full Scale Select Display Logic
□Deg C □Deg F	□ Normal Acting
Enter Input	☐ Reverse Acting
Zero Scale Full Scale Select Sensor J TC K TC R TC S TC	OPTIONS Conformal Coating TAGS Specify Tag Numbers Tag number is typed on product label at no charge. Enter Tag Number(s)

ACCESSORIES

DIS474

DIS-CARD 474 Range Card for DIS474 Thermocouple Process Indicator QTY ___ **INPUT Select Units Select Sensor** □ Deg C □ Deg F ☐ J TC □ E TC **Enter Input** ☐ K TC □ N TC \square B TC Zero Scale ☐ R TC ☐ S TC ☐ Other - Specify Notes

Full Scale

MOUNTING

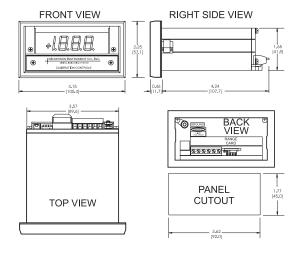
The DIS is designed to be mounted from the front of the panel through a standard horizontal 3.62 x 1.77 inches ($^{1}/_{8}$ DIN) cutout. Two mounting cam-screws allow the securing of the DIS to the panel from the front.

☐ T TC

DIMENSIONS

Inches [mm]

DIS SERIES I PROCESS INDICATORS



CONNECTIONS

TERM 1 Power AC L1
TERM 2 Power AC L2
TERM 3 Shield (Common)
TERM 4 T/C TERM 5 T/C -



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