MODEL: DIU70

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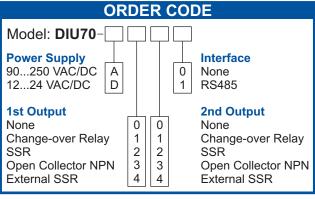
- RTD, T/C, mA & VOLTAGE INPUTS
- > TWO ON/OFF OR PULSE OUTPUTS
- > 4-DIGIT, 20 mm BRIGHT LED INDICATOR
- FULLY PROGRAMMABLE PARAMETERS
- AUXILIARY POWER SUPPLY FOR LOOP POWERED INSTRUMENTS

INTRODUCTION

Indumart DIU70 Universal Input Indicator/Controller is a stable, microprocessorbased device with very good accuracy, which can accept most common RTDs, thermocouples, current and voltage inputs. It provides power for loop powered instruments, and can have two programmable relays providing ON/OFF control/alarm.

Value of the input to DIU70 is indicated on a 20 mm, 4-digit bright LED display and the status of outputs is shown by the two LEDs.

Configuration of DIU70 can be performed via its front panel keys. The input type, range, offset value and alarm parameters are programmed by the user. It also allows adjusting of its built-in digital filter and output delay time; resulting in increased operation reliability in case of industrial interferences. Self-testing and diagnosis which displays the error origin, self-calibration, automatic compensation of line resistance and cold junction temperature, and RS485 serial interface capability are other important features of DIU70 indicators.



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SPECIFICATIONS

Process Inputs Pt100 (w=1.385) Pt1000 (w=1.385) PTC (1k or 2k; 3-wire) Thermocouple "J" Thermocouple "K" Thermocouple "T" Thermocouple "B" Thermocouple "R" Thermocouple "S" Linear Current Linear Voltage Temperature Unit

3-wire; -100...850°C 3-wire; -100...600°C -50...+150°C -20...+1000°C -20...+1300°C -40...+400°C 100...1800°C 0...1700°C 0...1700°C 4...20 mA or 0...20 mA 0...10 V °C or °F selectable

Outputs

Relav 5A / 250 V; NO/NC contacts **MOS** Gate 0.1 A / 60 V; Optically Isolated Solid State Relay (SSR) 0.2 A / 250 VAC 12(24) V / 50 mA Output for Ext. SSR Control Algorithm ON/OFF Set Point Within the selected limits Serial Interface Isolated RS485

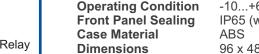
General

Accuracy **Temperature Drift RTD Line Comp.** Cold Junction Comp. Display Alarm Indicators **Display Range Decimal Point Place Power Supply**

Power Consumption Aux. Power Supply **Operating Condition** Front Panel Sealing Case Material Dimensions Mounting Weight

Better than 0.3% of span ≤ 0.02% of the span per 1°C Automatic; up to $2 \times 25 \Omega$ Automatic; from -10...+80°C 4-digit, 20-mm LED 2 LEDs for two alarms -1999...9999 Programmable 90...250 VAC/DC 12...24 VAC/DC 2 VA maximum 24 VDC nominal @ 30 mA -10...+65°C; 0 to 85% RH IP65 (washable) ABS 96 x 48 x 120 mm (W x H x D) In panel; Cutout 89 x 42 mm Approximately 400 g

Indumart reserves the right to change the specifications without prior notice.



1-15 W. Pearce St., Richmond Hill, Ont. L4B 1H6, Canada INC. Phone: (905) 707-9998 Fax: (905) 707-8484 E-mail: Sales@Indumart.com

