



MODEL: DIU70

- 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, microprocessor-based 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.

SPECIFICATIONS

Process Inputs

Pt100 (w=1.385)	3-wire; -100...850°C
Pt1000 (w=1.385)	3-wire; -100...600°C
PTC (1k or 2k; 3-wire)	-50...+150°C
Thermocouple "J"	-20...+1000°C
Thermocouple "K"	-20...+1300°C
Thermocouple "T"	-40...+400°C
Thermocouple "B"	100...1800°C
Thermocouple "R"	0...1700°C
Thermocouple "S"	0...1700°C
Linear Current	4...20 mA or 0...20 mA
Linear Voltage	0...10 V
Temperature Unit	°C or °F selectable

Outputs

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

General

Accuracy	Better than 0.3% of span
Temperature Drift	≤ 0.02% of the span per 1°C
RTD Line Comp.	Automatic; up to 2 x 25 Ω
Cold Junction Comp.	Automatic; from -10...+80°C
Display	4-digit, 20-mm LED
Alarm Indicators	2 LEDs for two alarms
Display Range	-1999...9999
Decimal Point Place	Programmable
Power Supply	90...250 VAC/DC 12...24 VAC/DC
Power Consumption	2 VA maximum
Aux. Power Supply	24 VDC nominal @ 30 mA
Operating Condition	-10...+65°C; 0 to 85% RH
Front Panel Sealing	IP65 (washable)
Case Material	ABS
Dimensions	96 x 48 x 120 mm (W x H x D)
Mounting	In panel; Cutout 89 x 42 mm
Weight	Approximately 400 g

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

ORDER CODE

Model: DIU70-□□□□			
Power Supply 90...250 VAC/DC 12...24 VAC/DC	A D		Interface 0 None 1 RS485
1st Output None Change-over Relay SSR Open Collector NPN External SSR	0 1 2 3 4	0 1 2 3 4	2nd Output None Change-over Relay SSR Open Collector NPN External SSR

