



Series: DIU75

**Extra
Large
Digits**



- RTD, T/C, mA & VOLTAGE INPUTS
- TWO ON/OFF OR PULSE OUTPUTS
- 3-DIGIT, 45 mm BRIGHT LED INDICATOR
- FULLY PROGRAMMABLE PARAMETERS
- AUXILIARY POWER SUPPLY FOR LOOP POWERED INSTRUMENTS

INTRODUCTION

Indumart DIU75 Universal Input Indicator/Controller is a stable, microprocessor-based device with very large digits and excellent 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 DIU75 is indicated on a 45 mm, 3-digit bright LED display and the status of outputs is shown by the two LEDs.

Configuration of DIU75 is easy. 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 DIU75 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...+999°C
Thermocouple "K"	-20...+999°C
Thermocouple "T"	-40...+400°C
Thermocouple "B"	100...999°C
Thermocouple "R"	0...999°C
Thermocouple "S"	0...999°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

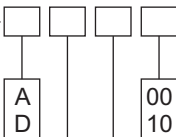
General

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	3-digit, 45 mm LED
Alarm Indicators	2 LEDs for two alarms
Display Range	-199...999
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
Case Material	ABS
Dimensions	144 x 72 x 92 mm (W x H x D)
Mounting	In panel; Cutout 138 x 66 mm
Weight	Approximately 600 g

ORDER CODE

Model: **DIU75**—

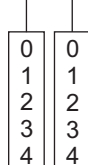
Power Supply
90...250 VAC/DC
12...24 VAC/DC



Interface
None
RS485

1st Output

None
Change-over Relay
SSR
Open Collector NPN
External SSR



2nd Output

None
Change-over Relay
SSR
Open Collector NPN
External SSR

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

