

MODEL: DIS12

- > UNIVERSAL INPUT
- > TWO ON/OFF OUTPUTS
- > 3-DIGIT LED INDICATOR
- > AC/DC POWER SUPPLY
- > COLD JUNCTION COMPENSATION
- > SELF-TESTING AND SELF-CALIBRATION
- > 12 or 24 VDC AUXILIARY POWER SUPPLY



INTRODUCTION

Indumart DIS12 ON/OFF programmable controllers are microprocessor-based and can accept a wide range of analogue inputs.

Other important features of the DIS12 controller are its small size, two ON/OFF outputs for control, a built-in circuit for self-calibration and self-testing, manual measurement offset setting, manual software compensation of line resistance (RTD) and cold junction compensation for thermocouples.

The value of the input to the DIS12 is indicated on a 3-digit display and the status of outputs is shown by the two LEDs.

Configuration of the DIS12 controller can be performed via its front panel keys. The controller can be configured for its input type, range, resolution, offset value, alarm set points and output direction and hysteresis.

SPECIFICATIONS

General

Display	3-digit LED
Digit Height	14 mm; High intensity
Alarm Indicators	2 LEDs for two alarms
Display Range	-199 to 999
Power Supply	90...250 VAC/DC, 12...24 VDC/AC, 110 VAC or 220 VAC
Power Consumption	2 VA maximum
Aux. Power Supply	12 or 24 VDC depending on the power supply suitable for a 2-wire 4...20 mA transmitter

Accuracy

Temperature Drift	0.3% of span
CJ Compensation	0.02% of span for 1°C Automatic, -10...+80°C
RTD-line Compensation	Automatic, up to 2 x 25 Ω
Front Panel Sealing	IP65
Operating Condition	-10...+65°C; up to 85% RH
Case Material	ABS
Mounting	In panel; 71 x 29 mm cut-out
Dimensions	72 x 36 x 60 mm (W x H x D)
Weight	Approximately 50 g

Process Inputs

Input Type Selection	Programmable
Pt100 (3-wire)	-100...850°C
Pt1000 (3-wire)	-100...600°C
PTC (1kΩ / 2kΩ @ 25°C)	-50...150°C
Thermocouples "J" / "K"	-20 to 999°C
Thermocouples "R" / "S"	0 to 999°C
Thermocouple "B"	100 to 999°C
Thermocouple "T "	-40 to 400°C
Temperature Unit	°C or °F, programmable
Current	0(4) to 20 mA → -199 to 999
Voltage	0 to 10 V → -199 to 999
Manual Input Offset	Programmable
Decimal Point Selection	Programmable

Outputs

Relay	2 Relays, 5A / 250 V; one NO and the other is NO/ NC; Both NO for 90...250 V power
Transistor Gate (option)	Open collector - 100 mA / 40 V
Solid State Relay (SSR)	1A / 250 VAC
Output for External SSR	12/24 V, 50 mA
Adjustable Parameters	Setpoint, hysteresis & direction
Control Algorithm	ON/OFF

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

ORDER CODE

Model: **DIS12** -

Power Supply

12...24 VDC/VAC
110 VAC
220 VAC
90...250 VAC/DC

Output

Relays
Open Collector Transistors NPN
SSR
For External SSR

