

**Plugin Modular Design****MODEL: DIU80**

- RTD, T/C, mA & VOLTAGE INPUTS
- UP TO 4 ALARM OUTPUTS
- CURRENT RE-TRANSMISSION (option)
- 4-DIGIT, 20 mm BRIGHT LED INDICATOR
- FULLY PROGRAMMABLE PARAMETERS

INTRODUCTION

Indumart DIU80 Universal Input Indicator / Controller is a high quality and stable device with very good accuracy, which can accept most common RTDs, thermocouples, current and voltage inputs. DIU80's plugin modular design along with its auto-detection capability allow easy installation of up to four programmable relays, an optional current re-transmission and RS485 communication interface.

Value of the input to DIU80 is indicated on a 20 mm, 4-digit bright display and the status of alarm outputs and current re-transmission are shown by the five LEDs.

Configuration of DIU80 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; resulting in increased operation reliability in case of industrial interferences.

Low power consumption and minimal temperature drift using only high quality components and high performance tantalum or ceramic capacitors are other important features

PROCESS INPUTS

| Sensor | Range |
|---------------|---------------|
| T/C "K" & "N" | 0 to 1300°C |
| T/C "S" & "R" | 0 to 1700°C |
| T/C "E" | 0 to 1000°C |
| T/C "J" | 0 to 1200°C |
| RTD (Pt100) | -200 to 800°C |
| RTD (Cu50) | -50 to 150°C |
| LINEAR INPUT | -1999 to 9999 |

SPECIFICATIONS

| | |
|----------------------------|--|
| Accuracy | Better than 0.3% of span |
| Temperature Drift | ≤ 0.015% of the span per 1°C |
| Cold Junction Comp. | Automatic |
| Display | 4-digit, 20mm, 7 Segments |
| Display Range | -1999 to +9999 |
| Decimal Point Place | Programmable |
| Power Supply | 100...240 VAC 24 VDC/VAC |
| Power Consumption | 5 VA maximum |
| Current Re-Trans. | 0 - 20 / 4 - 20 mA |
| Aux. Power Supply | 24 VDC nominal @ 50 mA |
| Alarm Outputs | Up to 2 SPDT (N.O.+N.C.) or 4 SPST (N.O. /N.C.) 2A @ 250 VAC |
| Isolation | Input / Output / Supply 2300 V |
| EMC | IEC61000-4-4 IEC61000-4-5 |
| Operating Condition | -10...+60°C; 0 to 90% RH |
| Case Material | Nylon - Black |
| Dimensions | 96 x 48 x 100 mm (W x H x D) |
| Mounting | In panel; Cutout 92 x 45 mm |
| Weight | Approximately 500 g |

ORDER CODE

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|---|
| Model: DIU80 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Power Supply 100...240 VAC 24 VDC / VAC | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Interface None RS485 |
| Current Re-Transmission With Without | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Output (s) 2 X SPST (N.O.) + 2 X SPST (N.C.) 2 x SPDT |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

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

