

## Universal Input Indicator-Controller Model MDIN4

- 4 Digital Display : 20mm high, red LED
- 16 - 128 measurements per second
- RTD, T/C, mA & voltage inputs
- Up to 4 alarm outputs
- Current Re-Transmission
- Fully programmable parameters



### Description

The MDIN4 series of universal input indicators. The MDIN4 series can be directly connected to most popular process sensors including Thermocouple (Types K, T, J, N, R and S), RTD. 20mA loop Transmitters and DC signals up to 100mV and 10V. Temperature can be displayed in °C or °F to 0.1 degree resolution. Millivolt, 10 Volt and 20mA DC signals can be scaled to engineering units using any portion of the -1999 to 99999 display range (with an adjustable decimal point position). The MDIN5 can provide up to 3 relay outputs and a linearised 4-20mA output.

### Specifications

|                     |                                            |
|---------------------|--------------------------------------------|
| Accuracy            | Better than 0.3% of span                   |
| Temperature Drift   | ≤0.015% of the span per 1 °C               |
| Cold Junction Comp. | Automatic                                  |
| Display             | 5-digit, 20mm, 7Segments                   |
| Display Range       | -1999to +9999                              |
| decimal Point Place | Programmable                               |
| Power Supply        | 100...240 VAC<br>24 VDC/VAC                |
| Power Consumption   | 5VA maximum                                |
| Current Re-Trans.   | 0 - 20 / 4 - 20 mA                         |
| Aux. Power Supply   | 24VDC nominal @ 30 mA                      |
| Alarm Outputs       | Up to 2 sPDT (N.O. /N. C.)<br>2A @ 250 VAC |
| Isolation           | Input / Output / Supply<br>2300 V          |
| Operating condition | -10...+60 °C; 0 to 90% RH                  |
| Case Material       | Nylon - Black                              |
| Dimensions          | 96 * 48 * 100 * mm(W *H *D)                |
| Mounting            | In panel; Cutout 92* 45 mm                 |
| Weight              | Approximately 500 g                        |

| Sensor        | Sensor        |
|---------------|---------------|
| 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 (Pt 100)  | -200 to 800°C |
| RTD (Cu50)    | -50 to 150°C  |
| LINEAR INPUT  | -1999 to 9999 |

## UniversalInput(ModelU)

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| <b>mA Input</b>              | 4...20mA,±20mA,±10mA                                                |
| <b>RTD Input</b>             | Pt100,Ni120,custom                                                  |
| <b>T/C Input</b>             | K,J, T,R,S,E,N,L                                                    |
| <b>mV Input</b>              | ±100mV                                                              |
| <b>Voltage Accuracy</b>      | ±0.04%f.s., otherssee"P"&"T"types                                   |
| <b>Input Impedance(volt)</b> | 1M Ω                                                                |
| <b>Excitation Current</b>    | 1mA forD3000Umodel                                                  |
| <b>Linearity</b>             | Linear,X <sup>1/2</sup> ,X <sup>3/2</sup> ,X <sup>5/2</sup> ,custom |

## ProcessInput(ModelV)

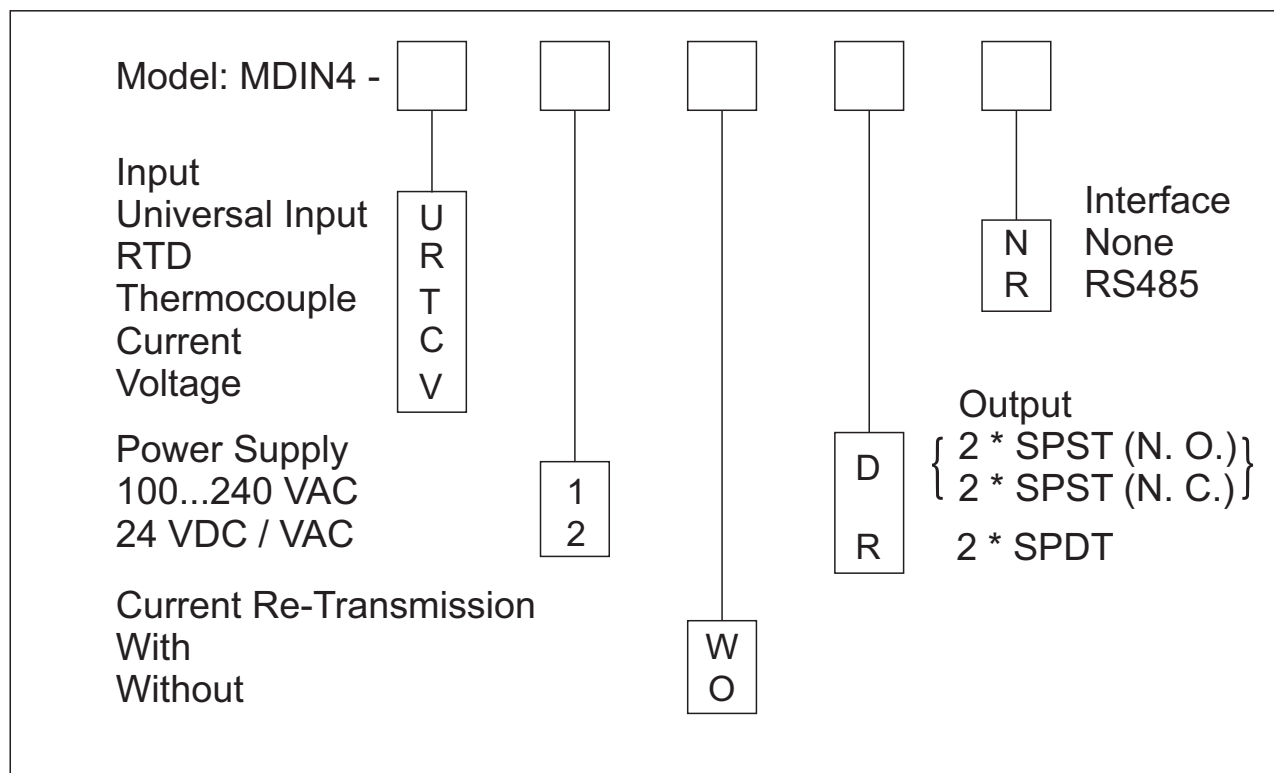
|                        |                                  |
|------------------------|----------------------------------|
| <b>Voltage Ranges</b>  | 0...1V;1...5Vand0...10V          |
| <b>Accuracy</b>        | ±0.05%f.s.                       |
| <b>Thermal Drift</b>   | 0.1µV/°C                         |
| <b>Zero Span</b>       | 100ppm/°C                        |
| <b>Current Ranges</b>  | 0...20,4...20and0...10mA         |
| <b>Accuracy</b>        | ±0.05%f.s.                       |
| <b>Excitation</b>      | 24V ± 5%@50mA                    |
| <b>Input Impedance</b> | 47 Ω (current)<br>1M Ω (voltage) |

## RTD(Pt-100)Input(Model P)

|                             |                   |
|-----------------------------|-------------------|
| <b>Sensor Range</b>         | -200...850°C      |
| <b>Accuracy</b>             | ±0.1°C ± 0.05%Rdg |
| <b>Thermal Drift</b>        | 0.008°C/°C        |
| <b>Zero Span</b>            | 100ppm/°C         |
| <b>Excitation Current</b>   | 300 µA to 550 µA  |
| <b>Max. Lead Resistance</b> | 50 Ω/leg          |
| <b>Lead Resist. Effect</b>  | 0.002°C/Ω         |

## ThermocoupleInput(Model T)

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| Thermocouple Types  | K, J, T, R, S, E, N, F, L                                                        |
| Accuracy            | $\pm 0.04\%$ f.s. $\pm 0.04\%$ Rdg or $0.5^\circ\text{C}$ (whichever is greater) |
| Cold Junction Error | $\pm 0.5^\circ\text{C}$                                                          |
| Cold Junction Range | $-10 \dots +60^\circ\text{C}$                                                    |
| Thermal Drift Zero  | $0.1 \mu\text{V}/^\circ\text{C}$                                                 |
| Span                | $100 \text{ ppm}/^\circ\text{C}$                                                 |

**ORDER CODE**



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