

New!

uP4-Din

Universal Input Indicator, Din-Rail, Controller, Transmitter.



Features.

- ◆ Universal Input with Indication.
- ◆ DIN Rail Mount.
- ◆ Universal AC or DC supply.
- ◆ Two Relay Outputs (with Setpoint LEDs).
- ◆ Option to add One Retrans Analogue Output (4~20mA or 0~10Vdc selectable).
- ◆ Programmable via USB Port using uP Configure software and the **XU-USB** (Rev 1) key.
- ◆ Simple setup and calibration.
- ◆ 4-digit LED display with Transparent Cover.
- ◆ Sensor power supply for powering external transmitter.
- ◆ Low cost.

The uP4-Din is a DIN rail mount, universal single input indicator, which gives easy interface with a wide range of sensors. It is also fitted with two relay outputs (with two setpoint indicator LEDs), and one optional retransmission output (4~20mA or 0~10Vdc selectable). The uP4-Din has a 4-digit LED front display, and a universal power supply of 24~250Vac / 19.5~250Vdc. Setup and calibration is simple, using 'uP Configure' software (version 1.5.23 or later), with step-by-step instructions.

Ordering Information.

CODE	DESCRIPTION
uP4-Din-R2	Universal Input Indicator, DIN rail mount with Two Relay Outputs.
uP4-Din-R2A	Universal Input Indicator, DIN rail mount with Two Relay Outputs plus One Analogue Output (4~20mA or 0~10Vdc selectable).



Universal Power Supply of 24~250Vac / 19.5~250Vdc.

XU-USB (Rev 1)	USB Programming Key for programming uP4-Din using uP Configure Programming software. Note: XU-USB must be (Rev 1) or later! Older versions will NOT connect with the uP4-Din. (Same Key as used for programming XU Series transmitters, 2400-A16 / 2400-M-R, Z-2400-Sleeper, Z-2400-A2 Series and IN-uP4.)
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RTD (Pt100, Pt1000)
Thermocouple
4~20mA
Voltage / mV
Potentiometer
Pulse or Frequency

Input



Output

4~20mA / 0~10Vdc

Output

2 x Relay



4 Digit LED Display

Setpoint LED Indicator

USB Programming Port

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Specifications

Input Specifications:

Excitation - Sensor Power Supply +22Vdc $\pm 10\%$, 25mA max.

Voltage DC Input:

mV Range -200mV~200mV.
V Range 0~1V, 0~10V, -10~30V, 0~300Vdc.
Linearity and Repeatability $< \pm 0.02\%$ FSO typical.

Current Input:

mA Range 0~20mA (4~20mA).
Input Resistance 10 Ω .
Linearity and Repeatability $< \pm 0.02\%$ FSO typical.

Thermocouple Input:

Thermocouple Types B, E, J, K, N, R, S, T.
Input Impedance 1M Ω Minimum.
T/C Lead Resistance 100 Ω Maximum.
Cold Junction Compensation -10~70°C.
Accuracy E, J, K, N, T $< \pm 1^\circ\text{C}$ / C.
B, R, S $< \pm 2^\circ\text{C}$.

RTD Input:

RTD Input Pt100 or Pt1000 DIN 3-wire Type.
(2-wire can be used with offset calibration.)
Lead Wire Resistance Pt100: 50 Ω /wire Maximum. 0.02% FSO Offset Error per Ω of Lead Resistance.
Pt1000: 20 Ω /wire Maximum. 0.002% FSO Offset Error per Ω of Lead Resistance.
Accuracy Better than 0.2°C.
Linearity (Pt100) 0.02% FSO for Span Inputs $\leq 200^\circ\text{C}$. 0.1% FSO for Span Inputs $\leq 300^\circ\text{C}$.
Linearity (Pt1000) 0.02% FSO for Span Inputs $\leq 200^\circ\text{C}$. 0.2% FSO for Span Inputs $\leq 300^\circ\text{C}$.

Pulse & Frequency Input:

Input Type Open Collector - NPN, PNP.
Frequency Range 0~2000Hz.
Software Modes General Frequency, Flow Rate or RPM.

Potentiometer Input:

Potentiometer input 3-wire.
Excitation voltage Variable.
Potentiometer resistance $< 1\text{k}\Omega$ low pot; 1~4k Ω med pot; 4~20k Ω high pot.

Output Specifications:

Analogue Output: Output type software selectable.

mA Range 0~20mA (4~20mA) Active.
V Range 0~10Vdc Active.
Isolation 1400Vrms for 1 minute. Working voltage 125V.
Output Drive 20mA, 600 Ω at 12Vdc.
Accuracy / Repeatability 0.05% of FSO.

Relay Outputs: 2 Isolated Relays with LED indication on each output.

Functions 2 on Board Controllers can be used as Set Point (SV), Switching Differential, Auto/Manual, Manual Output Setting, Dual Action Control, Single Action Control, Heat/Cool, Cool Only, Heat Only.
Relay Type & Ratings Relay 1: Form A, 3A max 120/240Vac or 28Vdc (resistive load).
Relay 2: Form C, 10A max 120/240Vac or 28Vdc (resistive load).

Power Supply Specifications:

Isolation 2300Vrms for 1 minute to all inputs and outputs.

Case Specifications:

IP20.
DIN Rail Mount 35mm.
Display 4 digits with Plastic Protective Flap.
Dimensions H=112mm, W=23mm, D=120mm.

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