

Pribusin Inc.

Manufacturers of Process
Controls and Instrumentation

Model: IUC-XX-UNV

Isolated Universal Signal Conditioner
For Special Purpose (Custom) Applications



Standard Features:

High Input-Output-Power Isolation (1500VAC Test)

Industry Standard Input: 4-20 mA, 1-5 VDC, more (see back)

Industry Standard Output: 4-20 mA, 1-5 VDC, more (see back)

Up to 4 Analog Inputs and 4 Adjustable Function Parameters.

Form 'C' Contact Available

Microprocessor Controlled for High Accuracy and Flexibility

Easy Field Calibration (Typ. calibration time < 2 min. using handheld meter only)

Two Wire Supply for Two Wire Transmitters

Power: 117 VAC 50/60 Hz

High Noise Rejection

CSA and NRTL Approved (LR 51078)

Function:

The IUC-XX-UNV is the basic hardware platform for many specialized signal conditioning applications. Its programmable microprocessor allows for complex and highly accurate mathematical signal manipulation functions.

Four variable potentiometers are available for additional function adjustability or for setting constants or operating parameters. In addition, there are jumpers available to further define and select modes of operation.

The output of the IUC-XX-UNV can be one or two analog outputs, one or two relay outputs, or one relay and one analog output.

DO NOT ORDER THIS INSTRUMENT WITHOUT CONSULTING FACTORY OR REPRESENTATIVE FIRST

Calibration:

All Calibration is done via multi-turn potentiometers. Each potentiometer has a test point associated with it. The test point shows a voltage of 0-5 VDC representing 0-100% of the parameter setting on the potentiometer. This makes for very easy field adjustment even with the instrument under power and running.

Specifications:

Isolation: Input to Output to Power 1500 VAC (test)

Input Impedance (4-20mA only): 250 Ohms

Accuracy/Linearity: +/- 0.3% max., +/- 0.1% typ.

Operating Temperature: -40 Deg.C. to +50 Deg.C.

Temperature Effects: +/-0.5% max., +/-0.2% typ.

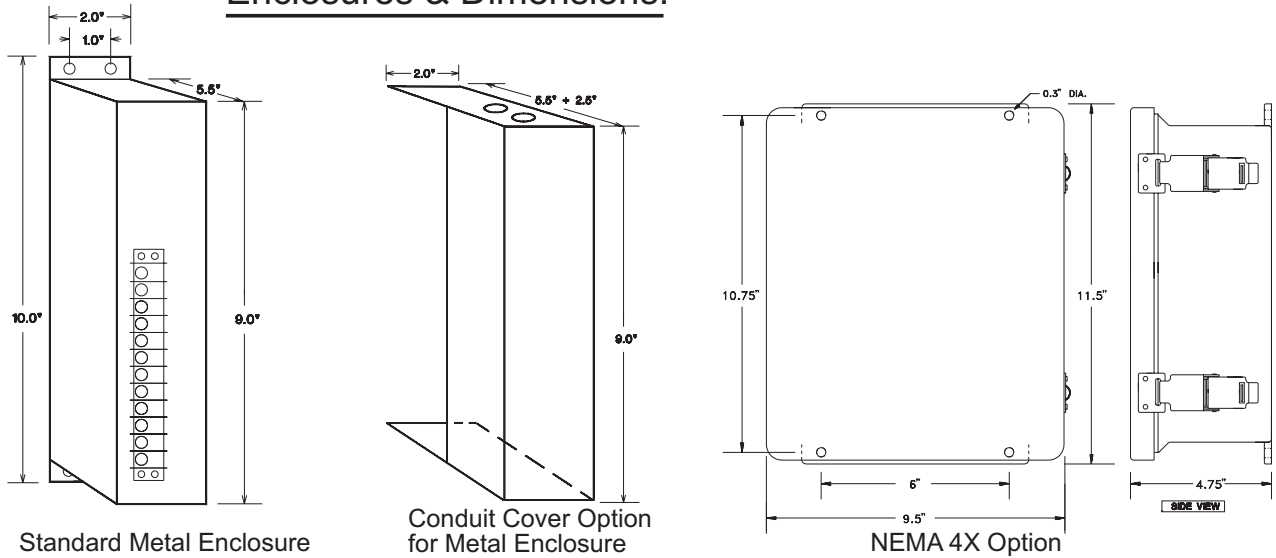
(for 40 Deg.C. change)

Contact Rating: 10A 1/8Hp @ 125VAC

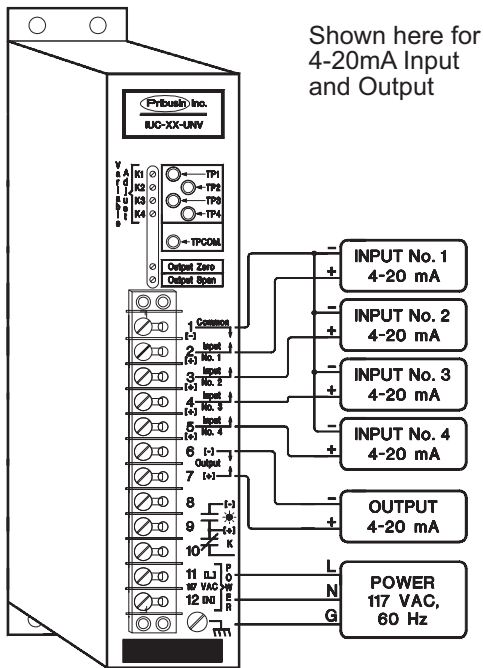
6A 1/8Hp @ 277VAC

IUC-XX-UNV

Enclosures & Dimensions:



Connection:



Model Designation:

IUC-XX-UNV

Input

Output

- 1: 1-5 mA ($Z_{in}=1K \text{ Ohm}$)
- 2: 4-20 mA ($Z_{in}=250 \text{ Ohm}$)
- 3: 0-1mA ($Z_{in}=5K \text{ Ohm}$)
- 4: 10-50 mA ($Z_{in}=100 \text{ Ohm}$)
- 5: 1-5 VDC ($Z_{in}=1\text{Meg Ohm}$)
- 6: 0-10 VDC ($Z_{in}=1\text{Meg Ohm}$)
- 7: Special Input

- 1: 1-5 mA (4000 Ohm Drive)
- 2: 4-20 mA (1000 Ohm Drive)
- 3: 0-1 mA (20000 Ohm Drive)
- 4: 10-50 mA (250 Ohm Drive)
- 5: 1-5 VDC ($Z_{out}=250 \text{ Ohm}$)
- 6: 0-10 VDC ($Z_{out}=500 \text{ Ohm}$)
- 7: Special Output
- 8: Pulse Output
- 9: Frequency Output

If no options specified, unit is 117 VAC Power in metal enclosure

Options: (Add letters to end of Model Number)

- A - 24 VDC Prime Power
- B - 240 VAC Prime Power (not CSA approved)
- T - 200 mA Two Wire Supply (24 VDC unreg.)
- C - Conduit Cover for Metal Enclosure (see above)
- N - NEMA 4X enclosure (see above)

Manufactured By:

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