



Standard Features:

- High Input-Output-Power Isolation (1500VAC Test)
- Industry Standard Inputs: 4-20 mA, 1-5 VDC, and more (see back)
- Industry Standard Output: 4-20 mA, 1-5 VDC, more (see back)
- Other Models Available for Millivolt, RTD, Thermocouple Inputs and more
- High Output Drive on Current Outputs
- Easy Field Calibration (Typ. calibration time < 2 min. using handheld meter only)
- Microprocessor Controlled for High Accuracy
- Two Wire Supply Option for Two Wire Transmitters
- Power: 117 VAC 50/60 Hz (Optional 24 VDC)
- High Noise Rejection
- CSA and NRTL Approved (LR 51078)

Function:

The IUC-XX is an isolated signal conditioner that provides high isolation and rugged design for many control applications. Three-way isolation is provided between the inputs, the output and the power. The signal isolation takes place through state-of-the-art optical isolators to ensure high accuracy and repeatability. Special output drive circuitry allows the IUC-XX to drive loads of up to 1600 Ohms which makes it ideal for driving multi instrument loops.

Several other models with various special inputs are available in the IUC-XX family. These models include RTD and Thermocouple conditioners, Strain Gage and Slide Wire conditioners etc. The same high isolation and rugged design makes these instruments accurate and dependable.

Calibration:

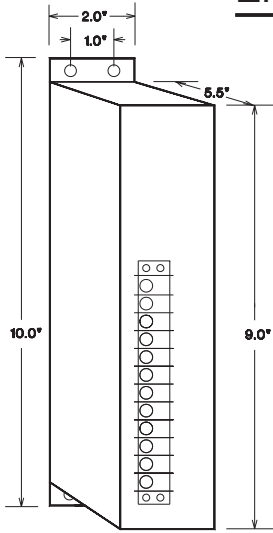
Calibration is performed using easily accessible multi-turn potentiometers. All instruments are shipped fully calibrated and tested, but can easily be field adjusted. A Zero and Span pot are available on all units to adjust the output signal.

Specifications:

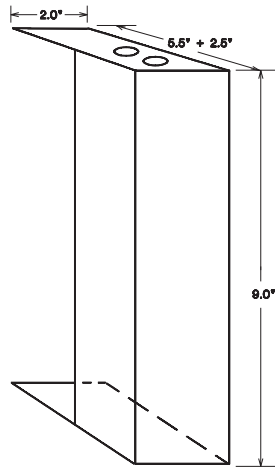
- Isolation: Input to Output to Power 1500 VAC (test)
- Accuracy/Linearity: +/- 0.1% max., +/- 0.05% typ.
- Operating Temperature: -40 Deg.C. to +50 Deg.C.
- Temperature Effects: +/-0.5% max., +/-0.2% typ. (for 40 Deg.C. change)
- Output Ripple: less than 0.1% p-p value
- Common Mode Rejection: 120 dB @ 60 Hz
- Loop Drive: Max. 1600 Ohms at 20 mA

IUC-XX

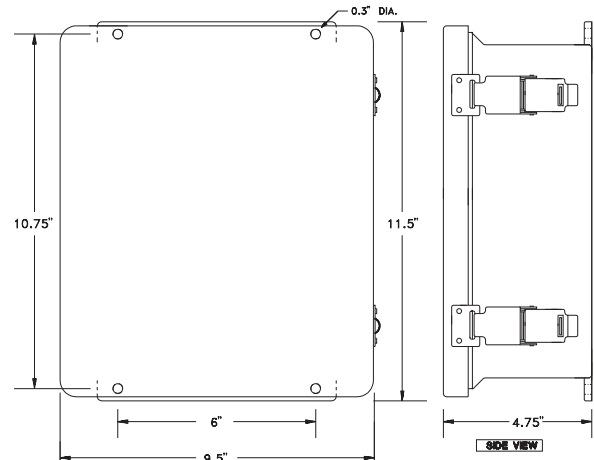
Enclosures & Dimensions:



Standard Metal Enclosure

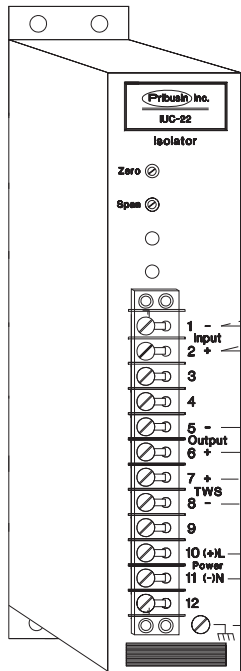


Conduit Cover Option for Metal Enclosure



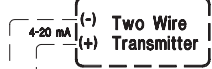
NEMA 4X Option

Connection:



Shown here for 4-20mA Input and Output

Optional TWS Connection



Not Required (Connected Internally)



Model Designation:

IUC-XX

Input

Output

- 1: 1-5 mA (Zin=1K Ohm)
- 2: 4-20 mA (Zin=250 Ohm)
- 3: 0-1mA (Zin=5K Ohm)
- 4: 10-50 mA (Zin=100 Ohm)
- 5: 1-5 VDC (Zin=1Meg Ohm)
- 6: 0-10 VDC (Zin=1Meg 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 (Zout=250 Ohm)
- 6: 0-10 VDC (Zout=500 Ohm)
- 7: Special Output

Example: Isolator with 4-20 mA Input and 4-20 mA Output in standard metal enclosure and 117VAC Power is designated by:IUC-22

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)

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