Pribusion Inc. Manufacturers of Process Controls and Instrumentation
Instruction Manual
Model: <i>IUC-XX</i> Function: <i>Isolator</i>
Input: □ X=1: 1-5 mA □ X=4: 10-50 mA □ X=2: 4-20 mA □ X=5: 1-5 VDC □ X=3: 0-1 mA □ X=6: 0-10 VDC □ X=7:
Output: □ X=1: 1-5 mA □ X=4: 10-50 mA □ X=2: 4-20 mA □ X=5: 1-5 VDC □ X=3: 0-1 mA □ X=6: 0-10 VDC □ X=7:
Power: 117 VAC, 60 Hz, 6 VA 24 VDC, 160 mA
Serial #:



All product returned to Pribusin Inc. in prime condition (not damaged, scratched or defaced in any way) within seven (7) months from the original date of shipment is subject to a 50% restocking charge. All product must be accompanied by a Return Authorization number (RA number) which must be obtained from Pribusin Inc. prior to returning any product.

After seven (7) months from the original date of shipment, products cannot be returned for restocking.

Custom designed products, modified products or all nonstandard products may not be returned for restocking.



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Model: IUC-XX

Manufacturers of Process Controls and Instrumentation

Isolated Universal Signal Conditioner





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 dpendable.

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)

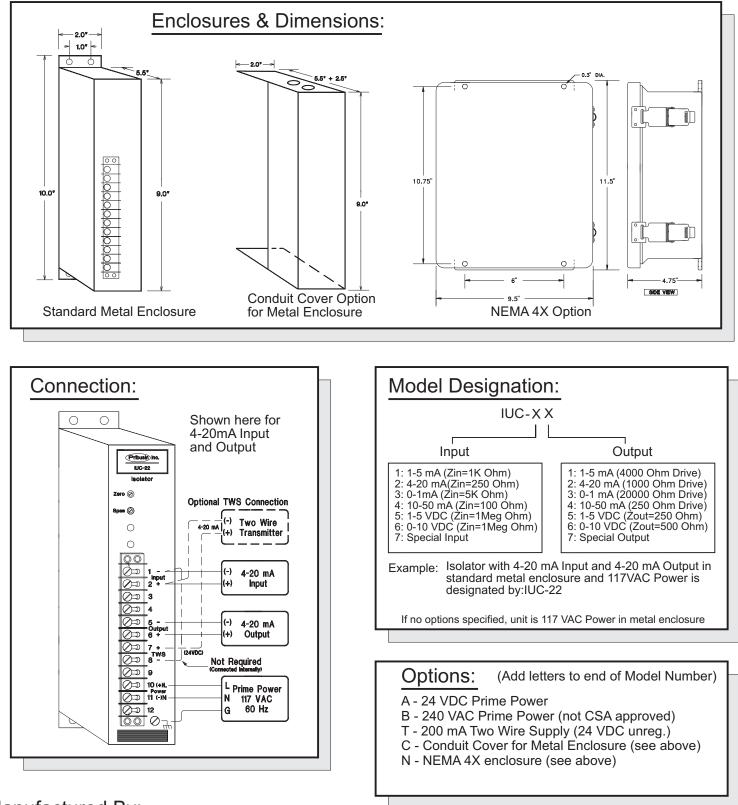
Calibration:

Calibration is performed using easily accessible multiturn 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



Manufactured By:



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