



Standard Features:

- High Input-Output-Power Isolation (1500VAC Test)
- Wide Input Frequency Ranges (from 5 Hz to 10 KHz)
- Industry Standard Output: 4-20 mA, 1-5 VDC, more (see back)
- Special Low Frequency Input Version Available - Model IUC-7X-FRL (from 0.01 Hz to 10 Hz)
- Easy Field Calibration (Typ. calibration time < 2 min. using handheld meter only)
- Microprocessor Controlled for High Accuracy
- 24 VDC and 12 VDC Supply for Open Collector Input or Dry Contact Input
- Power: 117 VAC 50/60 Hz (Optional 24 VDC)
- High Noise Rejection
- CSA and NRTL Approved (LR 51078)

Function:

The IUC-7X-FRX is a microprocessor controlled Frequency to analog output converter that is easily field configurable to any frequency input from 0-10 Hz to 0-10 KHz. Adjustments to the input settings can be made while the instrument is operating. This flexibility combined with easy field calibration allows for the fine tuning of a process on site with little effort. All that is required to change the calibration settings is a voltmeter and a small screwdriver.

A special low frequency input version (FRL) is available for frequency inputs between 0.01 Hz and 10 Hz.

For more specialized frequency inputs, another instrument the IUC-7X-FRW offers more flexibility by providing adjustability for both the 0% input frequency and the 100% input frequency. This allows for a specific frequency window to be extracted. See Model IUC-7X-FRW Data Sheet.

Calibration:

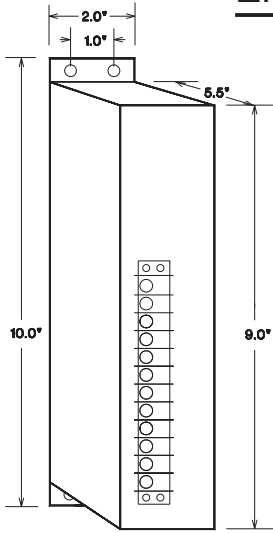
The IUC-7X-FRX has 11 input frequency ranges that are selectable via jumpers inside the instrument. Each range offers full adjustability from its minimum to its maximum frequency via a multi turn potentiometer. The potentiometer has a test point where a voltage of 0-5 VDC indicates a setting of 0-100%. This allows for easy field calibration with the instrument running.

Specifications:

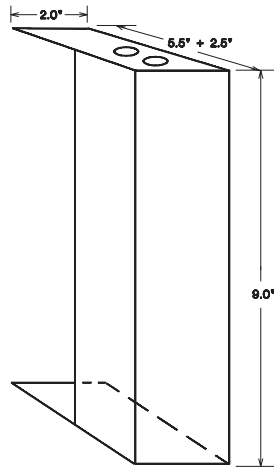
- Isolation: Input to Output to Power 1500 VAC (test)
- Accuracy/Linearity: +/-0.3% max., +/-0.1% typ.
- Operating Temperature: -40 Deg.C. to +50 Deg.C.
- Temperature Effects: +/-0.5% max., 0.2% typ. (for 40 Deg.C. change)

IUC-7X-FRX

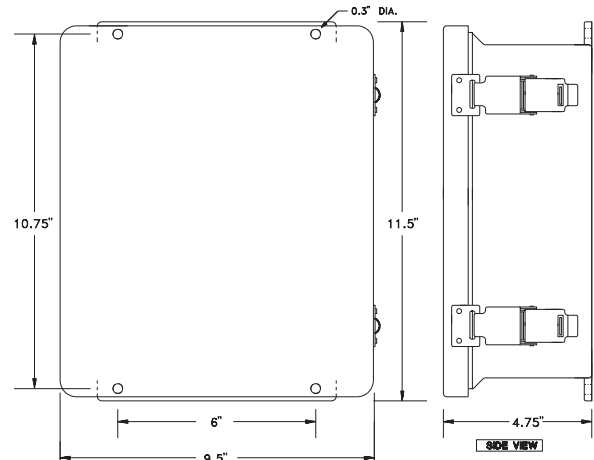
Enclosures & Dimensions:



Standard Metal Enclosure

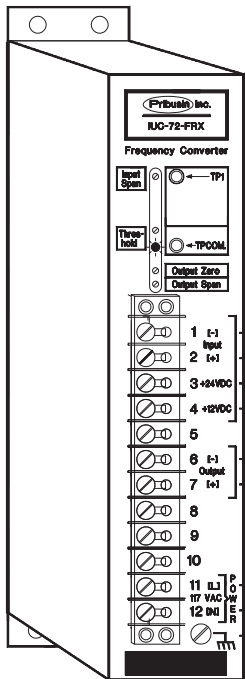


Conduit Cover Option for Metal Enclosure

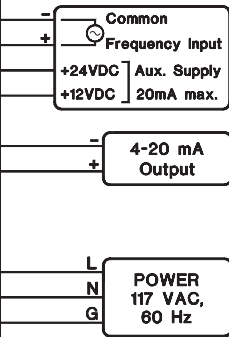


NEMA 4X Option

Connection:



Shown here for 4-20mA Input and Output



Model Designation:

IUC-7X-FRX

Output

Other Models

- 1: 1-5 mA (4000 Ohm Drive)
- 2: 4-20 mA (1000 Ohm Drive)
- 3: 0-1mA (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

- FRL: Low Input Frequency
- FRW: Frequency Window (See IUC-7X-FRW)
- FRT: Frequency Trip (See IUC-7X-FRT)

Example: A Frequency Converter with a 1-5 VDC output in a metal enclosure with 24 VDC power is designated by: IUC-75-FRX-A

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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