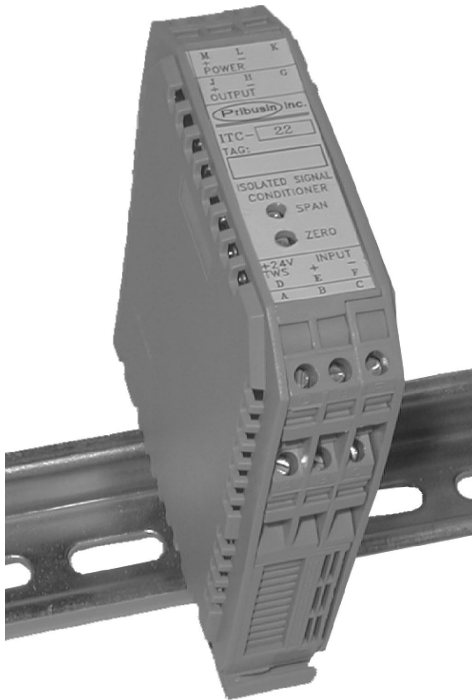


Pribusin Inc.

Manufacturers of Process
Controls and Instrumentation

Model: ITC-7X-MVX

Isolated Terminal Millivolt Conditioner



Standard features:

High Input-Output-Power Isolation (1500VAC Test)
Small Size - Fits on Terminal Block Rail
Industry Standard Inputs and Outputs (see back)
High Output Drive (1000 Ohms for 4-20 mA)
Power: 24 VDC, 80 mA
High Noise Rejection
CSA and NRTL Approved (LR 51078)

Function:

The ITC-7X-MVX provides high isolation from Input to Output to Power in a small, easy to install package. The universal DIN rail mount often makes it possible to install the ITC-7X-MVX right next to other instruments that it is to be wired to. The many different input and output configurations allow it to be used in a great variety of millivolt applications ranging from PLC front end conditioning to current measurement across a shunt.

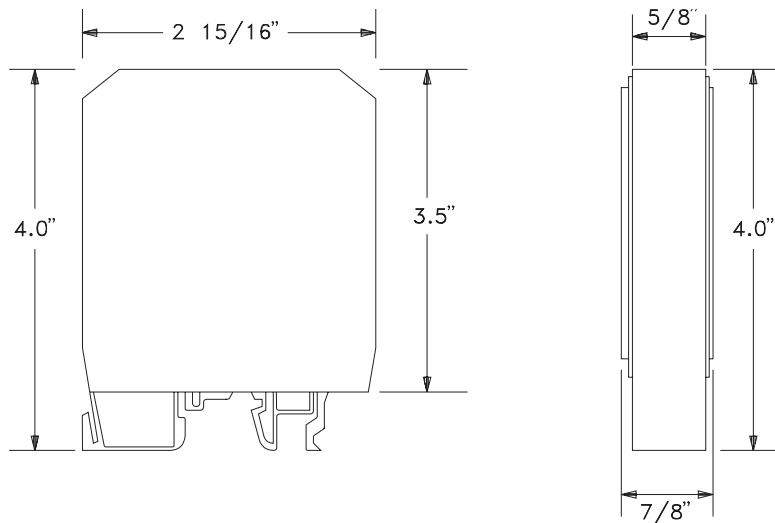
The high output drive (1000 Ohms @ 4-20 mA) allows the ITC-7X-MVX to drive several other instruments directly from its output.

Specifications:

Isolation: 1500 VAC Input to Output to Power (Test)
Power: 24 VDC (19-29VDC) @ 80 mA
Accuracy/Linearity: +/-0.2% max., +/- 0.1% typ.
Loop Resistance
Change Effects: -0.03% per 100 Ohms change (4-20 mA only) calibrated at 250 ohms
Common Mode Rej.: at 60 Hz = 120 dB
Response Time: 100 msec to 63% of final value
500 msec to 99% of final value
Temperature Effects: +/- 0.025% per Deg. C.
Span Drift: +/- 0.025% per Deg. C.
Zero Drift: 1 uV per mV offset per Deg. C. OR
1 uV per Deg. C., whichever is greater
Drift at 25 Deg. C.: 24 Hours: +/- 0.1%
30 Days: +/- 0.2%
Operating Temperature: -40 Deg. C. to + 50 Deg. C.
Coupling Capacitance: Input-Output-Power = 20 pF

ITC-7X-MVX

Dimensions:



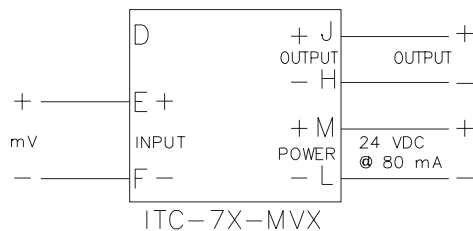
Calibration:

M	L	K
+	-	
POWER		
J	H	G
+		
OUTPUT		
Pribusin Inc.		
ITC -		
TAG:		
ISOLATED		
SIGNAL		
CONDITIONER		
⊕ SPAN		
⊕ ZERO		
+24V	INPUT	
TWS	+	-
D	E	F
A	B	C

Calibration is usually not necessary, but two multi-turn pots allow for fine adjustments.

Connection:

FIELD CONNECTION



Model Designation:

ITC-7X-MVX

Output

Input

2: 4-20 mA (1000 Ohm Drive)
5: 1-5 VDC (Zout=250 Ohm)
6: 0-10 VDC (Zout=500 Ohm)
7: Special Output

1: 0-5 mV
2: 0-10 mV
3: 0-20 mV
4: 0-50 mV
5: 0-100mV
7: Special Input

Example: Millivolt conditioner with 0-50mV Input & 4-20mA Output is designated by:
ITC-72-MV4

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