

# Manufacturers of Process Controls and Instrumentation

# Instruction Manual

Model:	ITC-XX	
Function:	Isolator	
Input:	☐ X=1: 1-5 mA ☐ X=2: 4-20 mA ■ X=3: 0-1 mA ☐ X=7:	□ X=6: 0-10 VDC
Output:	☐ X=1: 1-5 mA ■ X=2: 4-20 mA ☐ X=3: 0-1 mA ☐ X=7:	☐ X=6: 0-10 VDC
Power:	□ 24 VDC, 160 mA I	Max
Serial #:	(If special or required)	

For Technical Assistance And Questions Call USA: (231) 788-2900 CANADA: (905) 660-5336

# Restocking Policy

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.

# Warranty Policy

Pribusin Inc. warrants equipment of its own manufacture to be free from defects in material and workmanship, under normal conditions of use and service, and will replace any component found to be defective, on its return to Pribusin Inc., transportation charges prepaid, within one year of its original purchase. Pribusin Inc. will extend the same warranty protection on equipment, peripherals and accessories which is extended to Pribusin Inc. by the original manufacturer. Pribusin Inc. also assumes noliability, expressed or implied, beyond its obligation to prelace any component involved. Such warranty is in lieu of all other warranties, expressed or implied.

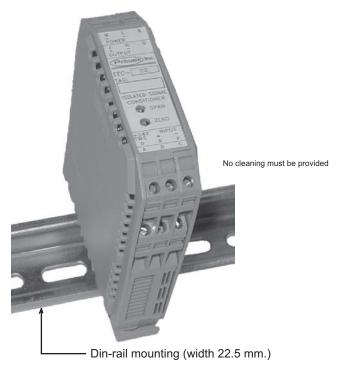


# Model: ITC-XX-XX-DC

Manufacturers of Process

Controls and Instrumentation

### **Isolated Terminal Signal Conditioner**



#### Standard Features:

High Input-Output-Power Isolation (2000 VAC Test for 1 second)

Low Input Impedance on 4-20mA Inputs

Small Size - Fits on Terminal Block Rail

Industry Standard Inputs and Outputs (see back)

High Output Drive (1000 Ohms for 4-20 mA)

Two Wire Supply Option for Two Wire Transmitters

Power: 24 VDC 80 - 160 mA

High Noise Rejection

CSA Certification 2054910



Pollution Degree 2

Installation Category II

Do Not Expose To Direct Sunlight

The ITC-XX is a signal isolator that 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-XX right next to the instrument that is to be isolated. The many different input and output configurations allow it to be used in a great variety of applications ranging from PLC front end conditioning.

The high output drive (1000 Ohms @ 4-20 mA) allows the ITC-XX to drive several other instruments directly from its output. The standard two wire supply allows the ITC-XX to be used with two wire field transmitters such as differential pressure transducers and temperature sensors, etc.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired

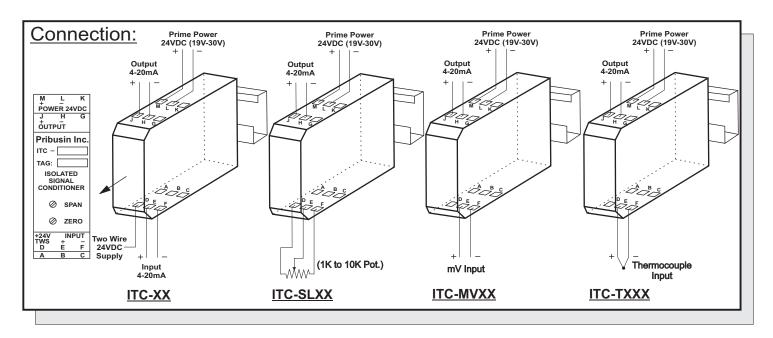
Specifications:							
peomodiono.	ITC-XX	ITC-SLXX	ITC-MVXX	ITC-TXXX			
Power 1) 12VDC 24VDC 40VDC	170mA, 330mA max. 80mA, 160mA max. 55mA, 110mA max.	175mA max. 170mA max. 85mA max. 80mA max. 60mA max. 55mA max.		170mA max. 80mA max. 55mA max.			
Isolation	High Inpu	High Input to Output to Power (2000 VAC Test for 1 second)					
Input Impedance	see Input table 10 Meg Ohm 10 Meg Ohm 10 Meg						
Accuracy / Linearity	+/-0.2% max., +/- 0.1% typ. +/-0.2% max., +/- 0.1% typ. +/-0.3% max., Drift 1µV/°C Linear with M						
Loop Res. D Effect	-0.1% per 100 Ohms change						
Common Mode Rej.	at 60 Hz = 120 dB						
Response Time	50 msec to 63% 75 msec to 63% 100 msec to 63% 100 msec						
Drift at 25 Deg.C	24 Hours: ± 0.03%	o, 30 Days: ± 0.1%	24 Hours: ± 0.3%, 30 Days: ± 0.8%				
Operating Temp.	-40 Deg. C. to + 50 Deg. C.						
Environment	Altitude: 0-6562 ft (0-2000 m) Humidity: 0-95% RH non-condensing						

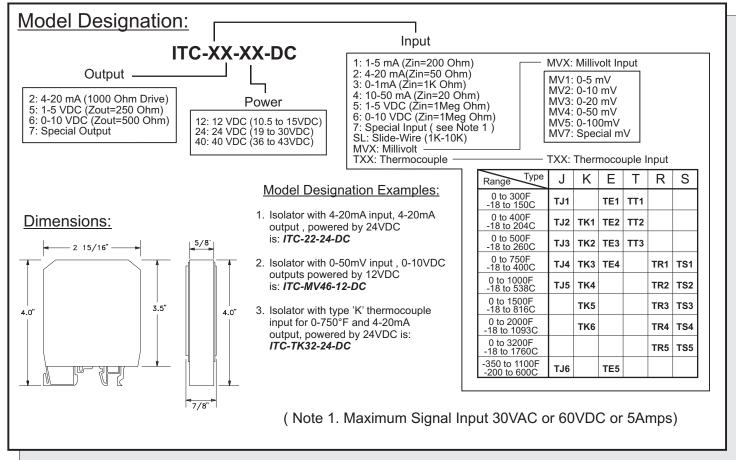
CAUTION To be powered by a class 2 source.

(Maximum Signal Input 30VAC or 60VDC or 5Amps) (Maximum Signal Output 30VDC or 50mA)

107396-G Page B1

## ITC-XX-XX-DC





#### Manufactured By:



www.pribusin.com info@pribusin.com

#### **USA**:

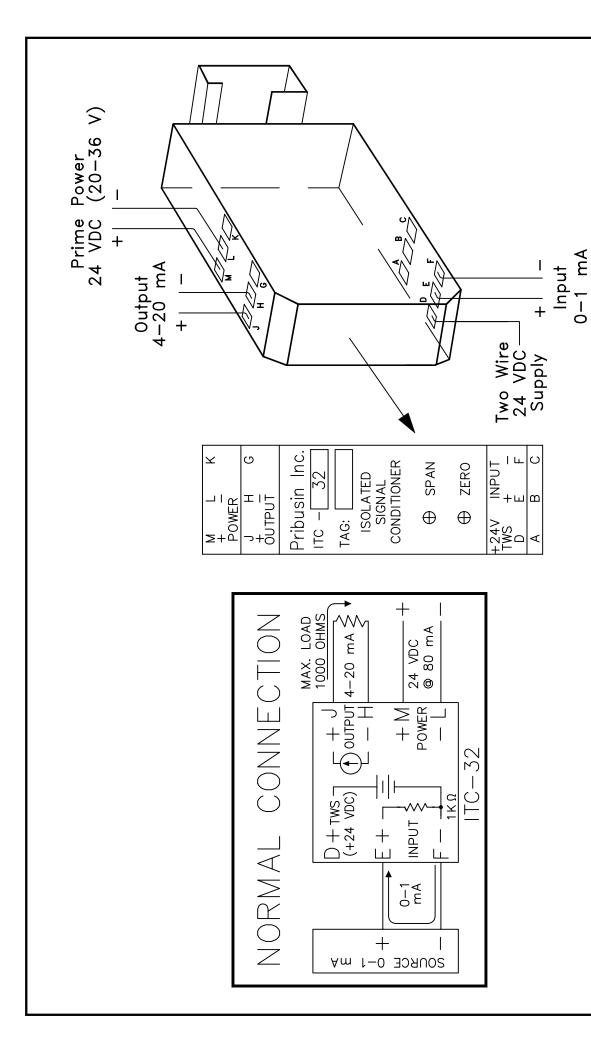
Pribusin Inc. 743 Marquette Ave. Muskegon, MI 49442 Ph: (231) 788-2900 Fx: (231) 788-2929



#### CANADA:

Pribusin Inc. 101 Freshway Dr. Unit 57 Concord, Ontario, L4K 1R9

Ph: (905) 660-5336 Fx: (905) 660-4068



Note:

For Detail of Terminal Block Enclosure/ Din Rail See Dwg. 104384.

CHKD:
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# Calibration Procedure:

Prime Power 24 VDC (20-36 V)

0-100 %

Output

- 1. Apply a 0 % input to the input terminals.
- 2. Adjust ZERO pot. until output signal is 0 %.
- 3. Apply a 100 % input to the input terminals.
- 4. Adjust SPAN pot. until output signal is 100 %.
- 5. Repeat procedure starting at 1. until output signal is correct.
- 6. Apply a 50 % input to the input terminals, and check that the output is 50 %.
- 7. Calibration is complete.

						<i></i>	Two Wire	24 VDC —
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M + POWER	H. UTPUT	Pribusin)Inc.	- XX	ISOLATED SIGNAL CONDITIONER	SPAN SPAN	ZERO		<b>ы</b> С
¥+₽ 0	<b>-</b> +5		ITC- TAG:	ISOL CO			+24V TWS	Q V

# PribusinInc. @

0-100 % Input

DATE: NOV. 03/93 DRN: KS CHKD:

For Details of Terminal Block Enclosure/

Note:

Rail See Dwg. 104384.

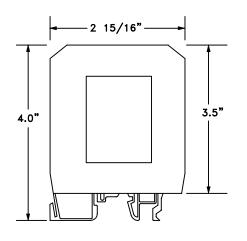
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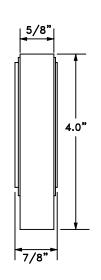
Isolated Terminal Signal Conditioner Calibration Procedure Model: ITC-XX

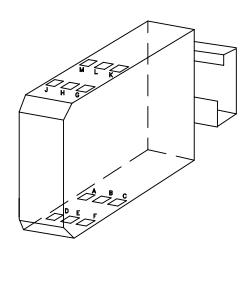
Rev.A May 28/02 by KS DWG. NO.:

104587-CAL

# Enclosure Detail:







# Din Rail Detail:

32 15 15 1.5 1.5	Rail Standard EN 50 035 Dimensions: 32 x 15 x 1.5 mm
35 B	Rail Standard DIN EN 50 022 Dimensions: 35 x 15 x 2.3 mm
7.5 C	Rail Standard DIN EN 50 022 Dimensions: 35 x 7.5 x 1 mm
35 1.5 1.5 1.5	Rail Standard DIN EN 50 022 Dimensions: 35 x 15 x 1.5 mm

Pribusin Inc. ©							
CHKD:	DATE: APR. 26/93	DRN	: KS				
Terminal Block Enclosure/ Din Rail Detail							
DWG. NO.	: 104384	RE	EV. A				