

Manufacturers of Process Controls and Instrumentation

Instruction Manual

| Model: | ITC-XXX-XX-DC | |
|-----------|---|--|
| unction: | Isolator | |
| Input: | ☐ X=1: 1-5 mA ☐ X=2: 4-20 mA ☐ X=3: 0-1 mA ☐ X=7: _ | ☐ X=5: 1-5 VDC ☐ X=6: 0-10 VDC |
| Output: | ☐ X=1: 1-5 mA ☐ X=2: 4-20 mA ☐ X=3: 0-1 mA ☐ X=7: _ | □ X=4: 10-50 mA□ X=5: 1-5 VDC□ X=6: 0-10 VDC |
| Output: | | |
| Power: | □ 12 VDC, 390 m/s □ 24 VDC, 190 m/s □ 40 VDC, 120 m/s | A 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-XXX-XX-DC

Manufacturers of Process Controls and Instrumentation

Pollution Degree 2

Specifications:

Dual Output Isolated Signal Conditioner



Din-rail mounting (width 22.5 mm.)

Installation Category II

Standard Features:

Dual Isolated Outputs (Can be Different Types)

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, 120-190 mA

High Noise Rejection

CSA Certification 2054910



Do Not Expose To Direct Sunlight

The ITC-XXX is a dual signal isolator that provides high isolation from Input to Output1 to Output2 to Power in a small, easy to install package. The universal DIN rail mount often makes it possible to install the ITC-XXX 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 to adding an extra loop with lots of drive to an existing, almost fully loaded, loop.

The high output drive (1000 Ohms @ 4-20 mA for each output) allows the ITC-XXX to drive several other instruments directly from either of its outputs. The standard two wire supply allows the ITC-XXX to be used with two wire field transmitters such as differential pressure transducers, temperature sensors, etc. Both outputs can be of a different type to provide maximum flexibility in system designs.

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

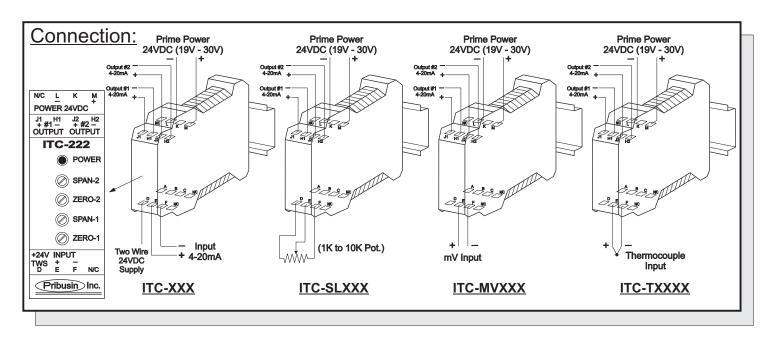
| necilicalions. | | | | |
|----------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| pecifications: | ITC-XXX | ITC-SLXXX | ITC-MVXXX | ITC-TXXXX |
| Power 1) 12VDC 24VDC 40VDC | 250mA, 390mA max. 120mA, 190mA max. 75mA, 120mA max. | 255mA max. 122mA max. 76mA max. | 250mA max. 120mA max. 75mA max. | 250mA max. 120mA max. 75mA max. |
| Isolation | High Input to Output1 to Output2 to Power (2000 VAC Test for 1 second) | | | |
| Input Impedance | see Input table | 10 Meg Ohm | 10 Meg Ohm | 10 Meg Ohm |
| Accuracy / Linearity | ± 0.2% max., ± 0.1% typ. | ± 0.2% max., ± 0.1% typ. | ± 0.3% max., Drift 1μV/°C | Linear with Material ± 2°C |
| 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 to 63% |
| Drift at 25 Deg.C | 24 Hours: ± 0.03%, 30 Days: ± 0.1% 24 Hours: ± 0.3%, 30 Days: ± 0.8% | | %, 30 Days: ± 0.8% | |
| Operating Temp. | -40 °C. to + 50 °C. | | | |
| Environment | Altitude: 0-6562 ft (0-2000 m) Humidity: 0-95% RH non-condensing | | | |

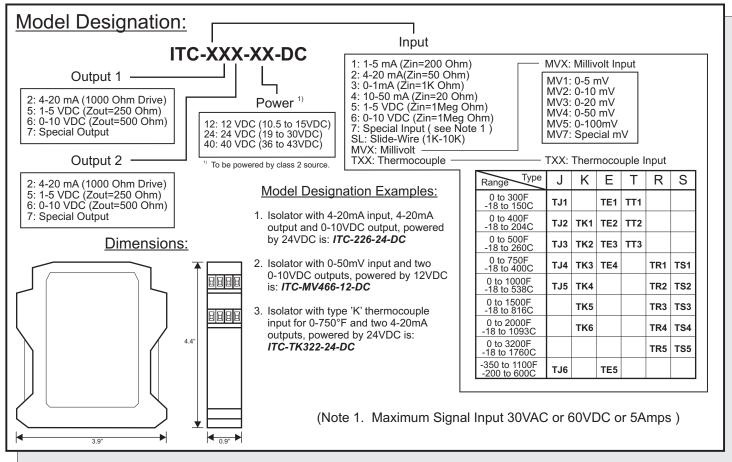
CAUTION To be powered by a class 2 source.

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

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ITC-XXX-XX-DC





Manufactured By:



www.pribusin.com info@pribusin.com

USA:

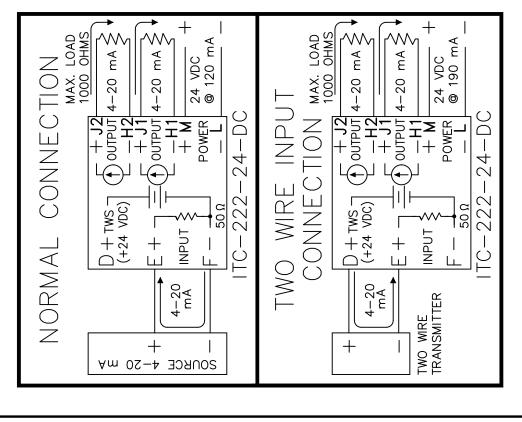
Pribusin Inc. 743 Marquette Ave. Muskegon, MI 49442 Ph: (231) 788-2900 Fx: (231) 788-2929



CANADA:

Pribusin Inc. 101 Freshway Dr. Unit 57 Concord, Ontario, L4K 1R9 Ph: (905) 660-5336

Fx: (905) 660-4068



Calibration Procedure:

- 1. Apply an input of 4mA to the input terminals. 2 Adiust ZERO1 pot. until output1 signal is 4mA
- 2. Adjust ZERO1 pot. until output1 signal is 4mA. 3. Apply an input of 20mA to the input terminals.
- 4. Adjust SPAN1 pot. until output1 signal is 20mA
 - 5. Repeat procedure starting at 1. until output1 signal is correct.
- 6.Repeat for output2 adjusting Zero2 and Span2 7.Apply an input of 12 mA to the input terminals, and check that output1 and 2 are 12 mA.
 - 8. Calibration is complete.

REV. A

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DWG. NO.:

DRN: VB

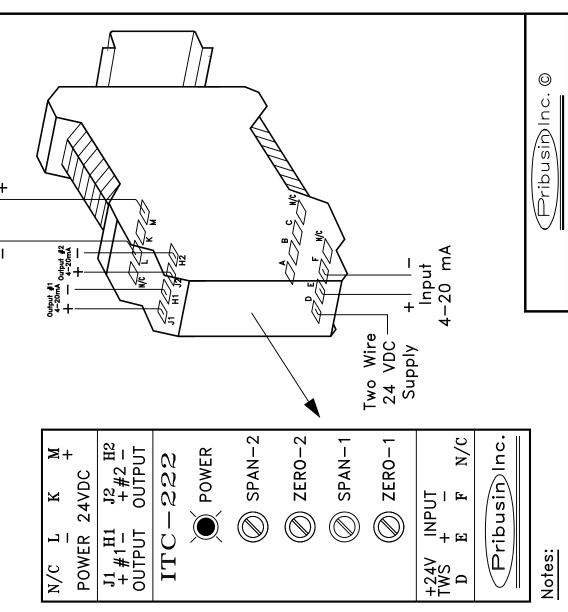
DATE: Dec.03/07

CHKD:

 For Enclosure Details See Dwg. 107320-1. Isolated Terminal Signal Conditioner

Connections/Calibration

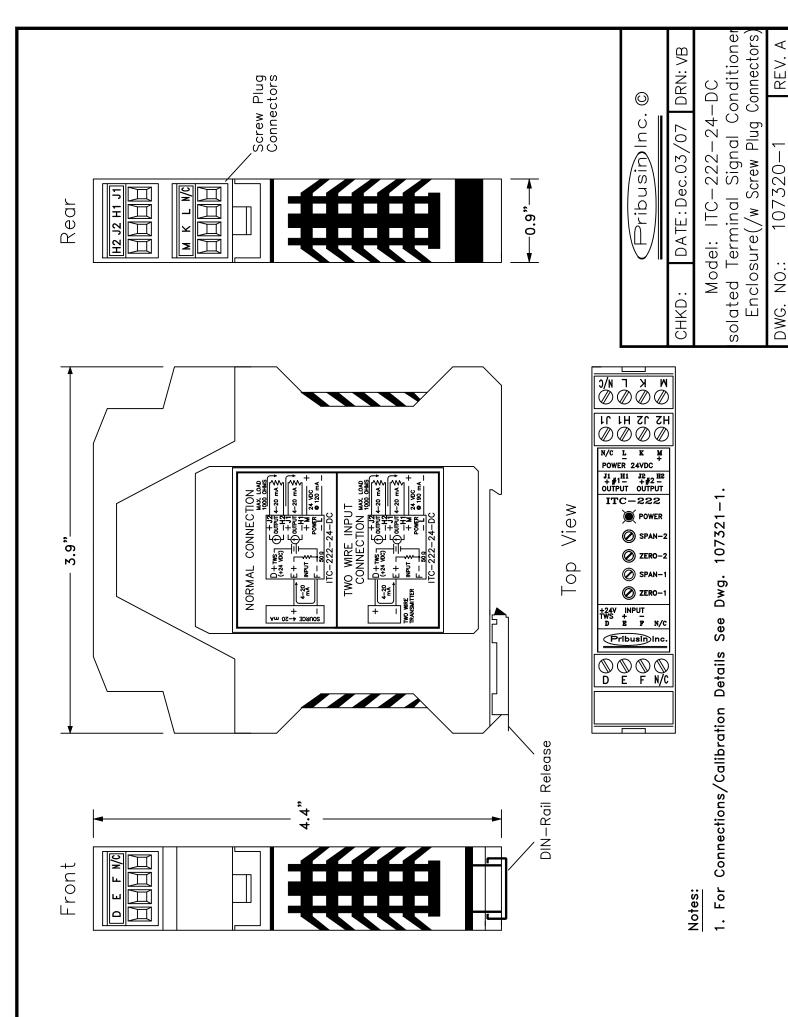
Model: ITC-222-24-DC



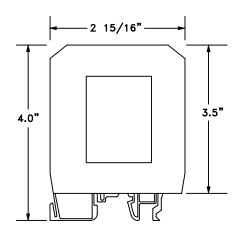
(20-36 V)

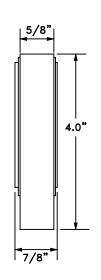
24 VDC

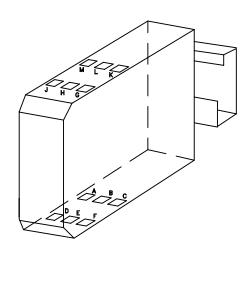
Prime Power



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 |

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