Pribusin Inc.

Manufacturers of Process Controls and Instrumentation

Instruction Manual

Model: *TWI-22 (Hockey Puck Style)*

Function: *Loop Powered Signal Isolator*

Input: ☐ 4-20 mA

Output: ☐ 4-20 mA

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 non-standard 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.

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Model: TWI-22

Loop Powered Isolator

Standard features:

High Input to Output Isolation (800 VAC Test)

Small Size - Fits Standard Explosion Proof Housing

Industry Standard 4-20 mA Output

Industry Standard 4-20 mA Input

Requires No Additional Power Supply

Drives up to 275 Ohms

High Noise Rejection

CSA and NRTL Approved (LR 51078)

NRTL/C

Function:

The TWI-22 is a loop powered isolator in a small, easy to install package. It has easily accessible screw terminals and is built in a rugged housing that fits into standard explosion proof housings. It is ideal for applications where loop isolation is required but power is not available or space is confined.

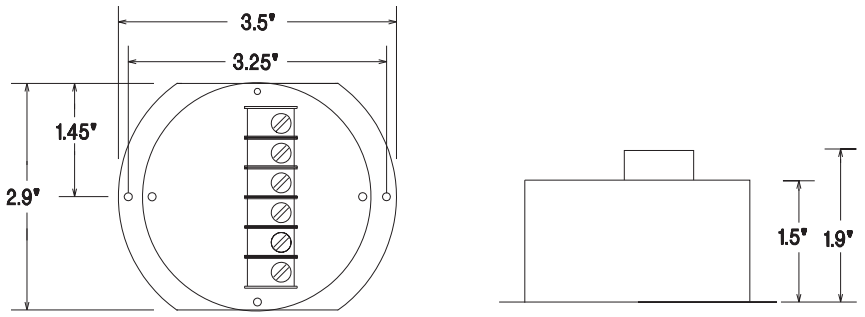
The output signal is generated from the incoming 4-20 mA signal which is isolated via a transformer. If the output is being driven into a 250 ohm impedance, the input to the isolator appears to be a 500 ohm impedance.

Specifications:

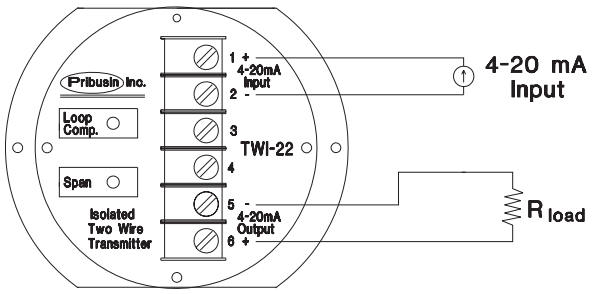
Input: 4-20 mA
Output: 4-20 mA (max. 275 Ohm load)
Isolation: 800 VAC Test
Accuracy/Linearity: +/-0.25% max., +/- 0.1% typ
Response Time: 10 msec to 63% of final value
40 msec to 99% of final value
Temperature Effects: +/- 0.025% per Deg.C.
Span Drift: +/-0.025% per Deg.C.
Load Effects: +/- 0.2% per 10 Ohm loop resistance change
Operating Temperature:-20 Deg. C. to + 40 Deg. C.

TWI-22

Dimensions:



Connection:



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TWI-22 CALIBRATION PROCEDURE

1) Turn Loop Compensation Potentiometer R5 totally clockwise.

2) Apply an input of 20ma.

3) Connect the maximum loop resistance (not more than 275 ohms, usually 250 ohms) to the output and measure the output current.

4) Adjust the span potentiometer R3 for an output of 20mA.

5) Calibration is complete.

FIELD CALIBRATION

1) Apply an input of 20ma and adjust the loop compensation potentiometer R5 for an output of 20mA.

2) If the loop compensation potentiometer R5 adjustment will not give 20 mA output, then go back to the calibration procedure as above.

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