



*Manufacturers of Process
Controls and Instrumentation*

Instruction Manual

Model: *TWN-MVX-TB*

Function: *Two Wire Non-Isolated Millivolt Transmitter*

Input Range:

- | | |
|---|--|
| <input type="checkbox"/> X=1: 0-5 mV | <input type="checkbox"/> X=4: 0-50 mV |
| <input type="checkbox"/> X= 2: 0-10 mV. | <input type="checkbox"/> X=5: 0-100 mV |
| <input type="checkbox"/> X= 3: 0-20 mV. | |
| | <input type="checkbox"/> X=7: _____ |

Output: 4-20mA

Power: 12 to 60 VDC

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

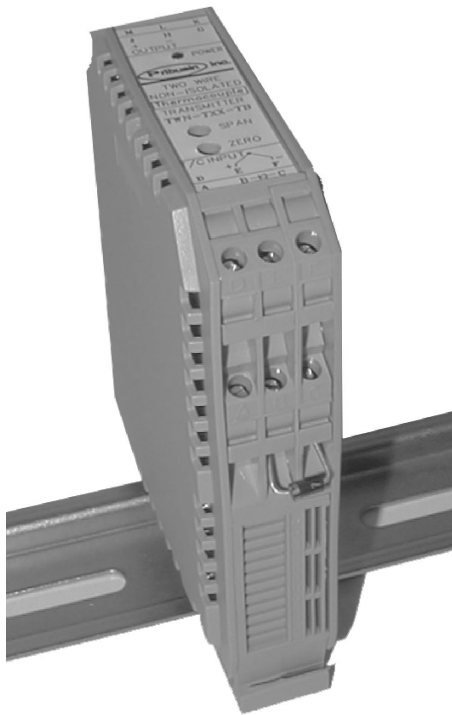
Pribusin Inc. warrants equipment of its own manufacture to be free from defects in material and workmanship, under normal conditions of use and service, and will replace any component found to be defective, on its return to Pribusin Inc., transportation charges prepaid, within one year of its original 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.

Pribusin Inc.

Manufacturers of Process
Controls and Instrumentation

Model: TWN-MVX-TB

Two Wire Non-Isolated Millivolt Transmitter



Standard features:

Small Size - Fits on Terminal Block Rail
Industry Standard 4-20 mA Output
Standard Ranges for Common mV Inputs
Special Ranges Available
Wide Operating Range (8 to 60 VDC)
High Noise Rejection
CSA and NRTL Approved (LR 51078)

Function:

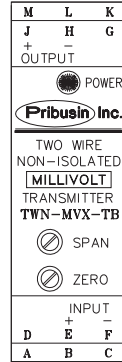
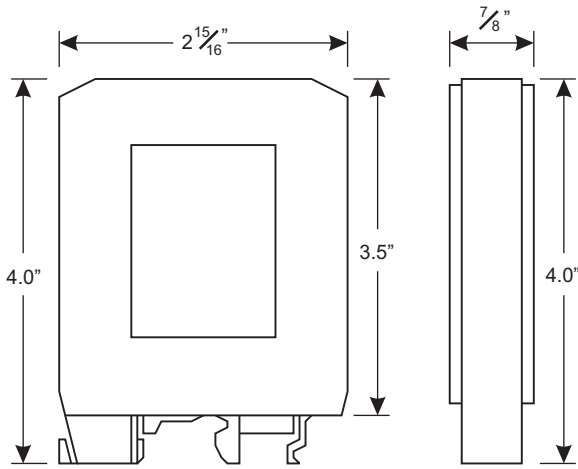
The TWN-MVX-TB is a non-isolated two wire Millivolt transmitter in a small, easy to install package. It has a universal DIN mount which makes it ideal for installation into crowded control panels. The many different input ranges allow it to be used in a great variety of millivolt measurement applications.

Specifications:

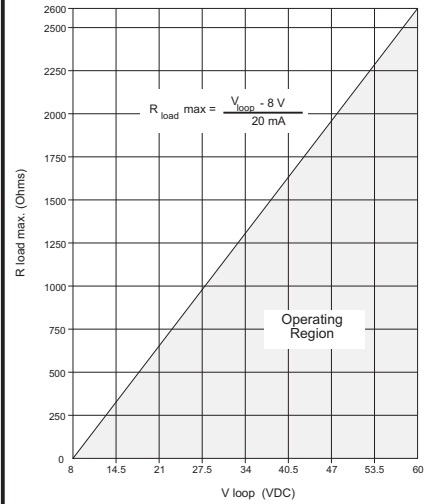
Output: 4-20 mA
Operating Power: 8 to 60 VDC
Accuracy/Linearity: +/-0.2% max., +/- 0.1% typ
Response Time: 100 msec to 63% of final value
500 msec to 99% of final value
Temperature Effects: +/- 0.025% per Deg.C.
Span Drift: +/-0.025% per Deg.C.
Zero Drift: 1 uV per mV offset per Deg.C. or
1 uV per Deg.C. whichever is larger
Line Effects: 0.03% per 10 VDC Line Change
Operating Temperature: -20 Deg. C. to + 40 Deg. C.
Input Impedance: 1 Meg Ohm min.

TWN-MVX-TB

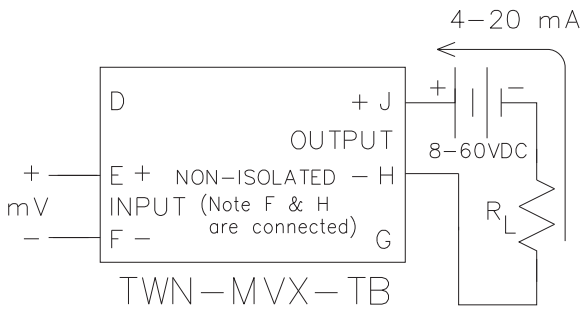
Dimensions:



Loop Characteristics:



Connection:



Model Designation:

TWN-MVX-TB

Input

- 1: 0-5 mV
- 2: 0-10 mV
- 3: 0-20 mV
- 4: 0-50 mV
- 5: 0-100 mV
- 7: Special (must specify on order)

Example: Non-Isolated millivolt transmitter for 20 mV is designated by: TWN-MV3-TB

Manufactured By:

Pribusin Inc.

www.pribusin.com
info@pribusin.com

USA:

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

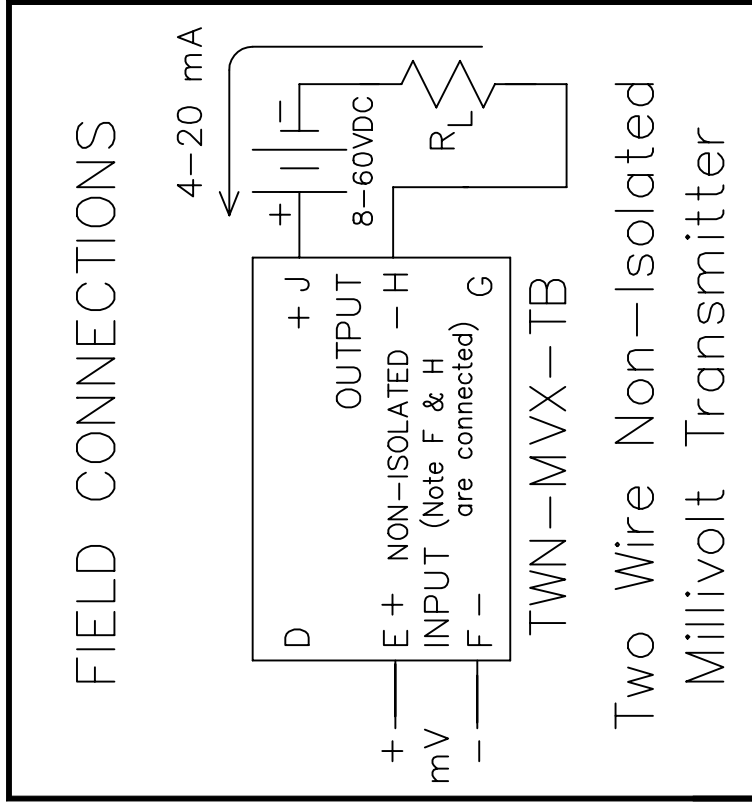


CANADA:

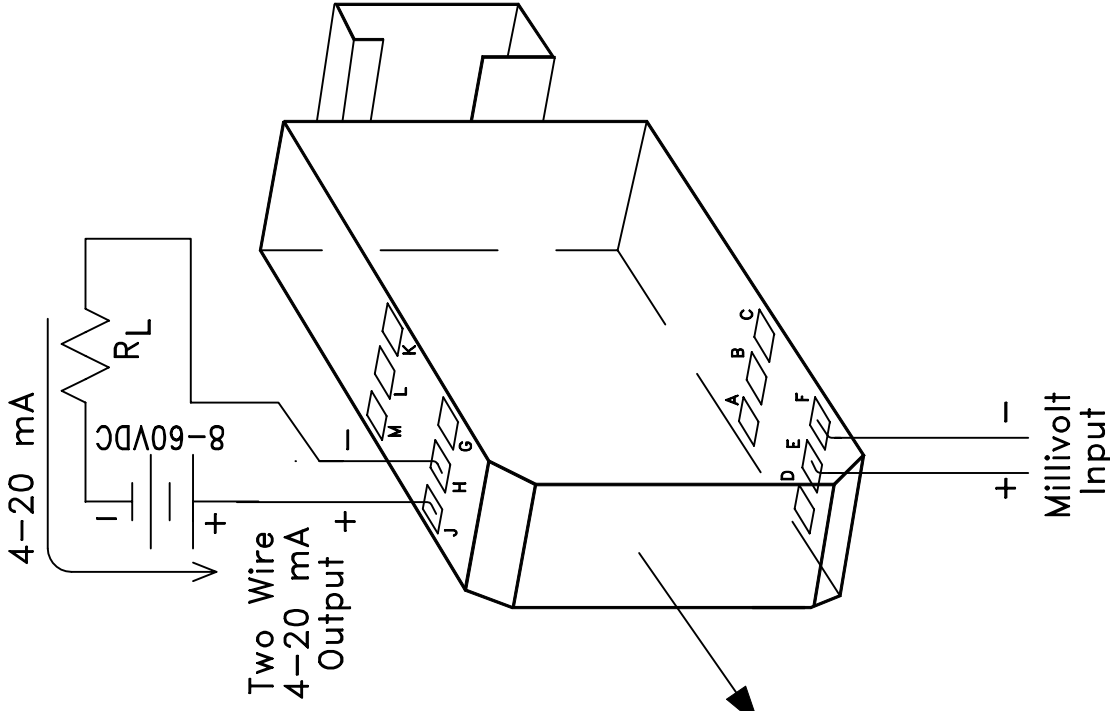
Pribusin Inc.
101 Freshway Dr. Unit 57
Concord, Ontario, L4K 1R9
Ph: (905) 660-5336
Fx: (905) 660-4068

Notes:

1. For Details of Terminal Block Enclosure/ Din Rail See Dwg. 104384.
2. The TWN-MVX-TB is Non-Isolated. For applications that require Isolation, the TWI-MVX-TB must be used.



M	L	K	POWER
J	H	G	
+ OUTPUT			
TWO WIRE NON-ISOLATED MILLIVOLT TRANSMITTER TWN-MVX-TB			
		SPAN	
		ZERO	
D	E	F	INPUT -
A	B	C	+



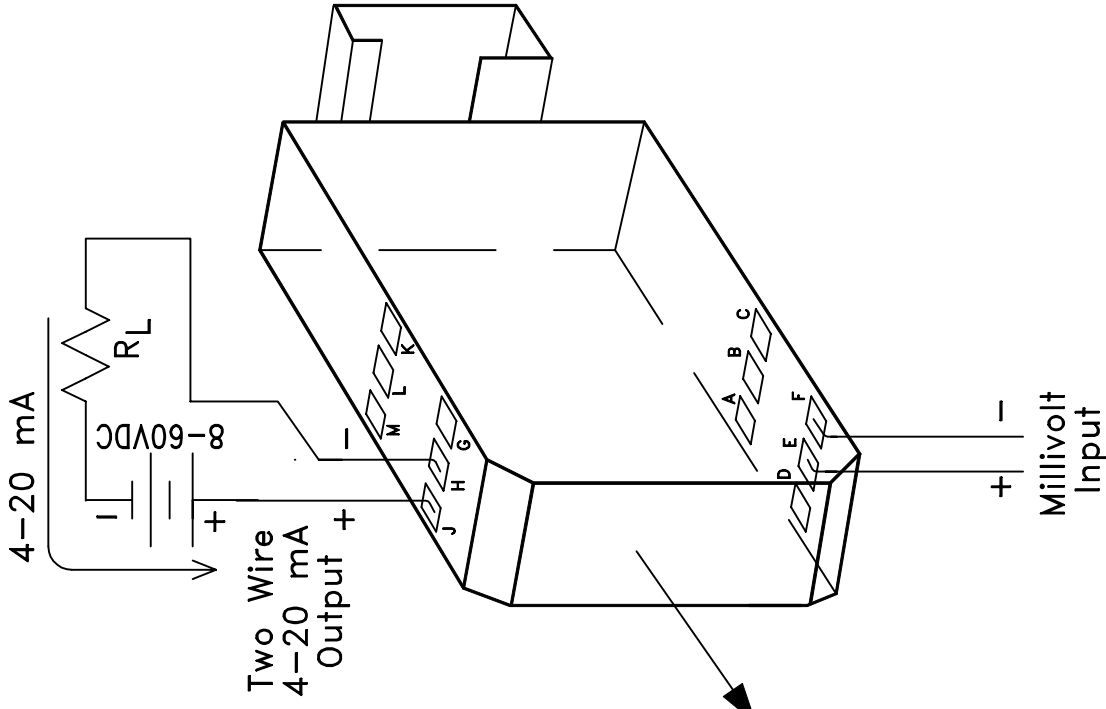
CHKD :	DATE : Aug. 29/95	DRN: KS	
Model: TWN-MVX-TB Two Wire Non-Isolated Millivolt Transmitter Connection Diagram			
DWG. NO. :	105388-1	REV. A	

Notes:

1. For Details of Terminal Block Enclosure/ Din Rail See Dwg. 104384.
2. The TWN-MVX-TB is Non-Isolated. For applications that require Isolation, the TWI-MVX-TB must be used.

Calibration Procedure:

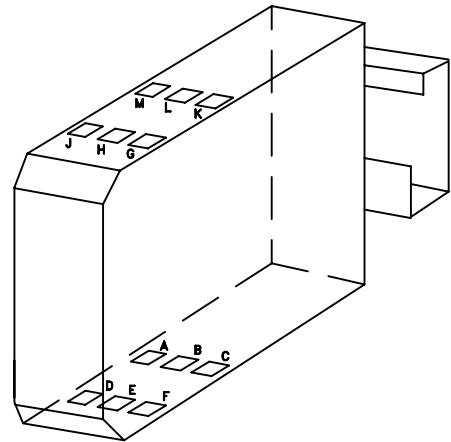
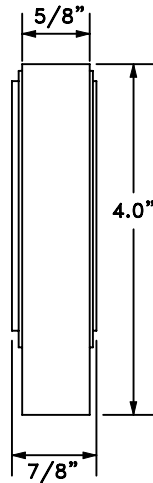
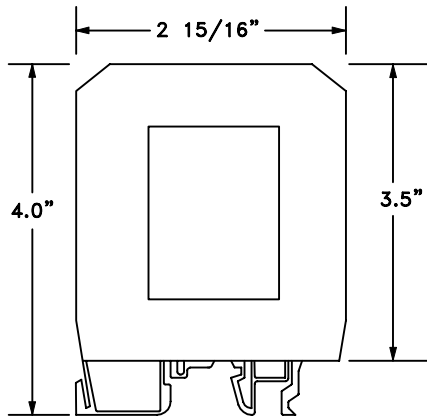
1. Apply an input signal equal to 100 % of the input range.
2. Adjust the Span potentiometer for an output of 20.00 mA.
Note: If the output will not go down to 20 mA or will not go up to 20 mA, then the Zero potentiometer should be adjusted to get a 20 mA output.
3. Apply an input signal equal to 0 % of the input range.
4. Adjust the Zero potentiometer for an output of 4.00 mA.
5. Repeat steps 1 to 5 until no further adjustments are required.



M	L	K	POWER
J	H	G	
+ OUTPUT			
Pribusin Inc.			
TWO WIRE NON-ISOLATED			
MILLIVOLT TRANSMITTER TWN-MVX-TB			
<input checked="" type="checkbox"/> SPAN <input checked="" type="checkbox"/> ZERO			
INPUT		-	
+		F	
D	E	C	
A	B	C	

Pribusin Inc. ©		
CHKD :	DATE : Aug. 29/95	DRN: KS
Model: TWN-MVX-TB Two Wire Non-Isolated Millivolt Transmitter Calibration Procedure		
DWG. NO. :	105388-2	REV. A

Enclosure Detail :



Din Rail Detail :

	<p>A</p> <p>Rail Standard EN 50 035 Dimensions: 32 x 15 x 1.5 mm</p>
	<p>B</p> <p>Rail Standard DIN EN 50 022 Dimensions: 35 x 15 x 2.3 mm</p>
	<p>C</p> <p>Rail Standard DIN EN 50 022 Dimensions: 35 x 7.5 x 1 mm</p>
	<p>D</p> <p>Rail Standard DIN EN 50 022 Dimensions: 35 x 15 x 1.5 mm</p>

Pribusin Inc. ©

CHKD:

DATE: APR. 26/93

DRN: KS

Terminal Block Enclosure/
Din Rail Detail

DWG. NO. :

104384

REV. A