



*Manufacturers of Process  
Controls and Instrumentation*

# ***Instruction Manual***

Model: *TWD-3.5*

Function: *Two Wire LCD Display*

Input:  4-20 mA

Output:  Display ( Maximum Range 0000-1999)

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: TWD-3.5**

**Two Wire LCD Display**



### Standard Features:

- 3 1/2 Large Digits
- Standard Plastic Enclosure
- Industry Standard 4-20 mA Input
- Display Range Field Adjustable
- Field Adjustable Decimal Point
- Fully Loop Powered
- CSA and NRTL Approved

### Function:

The TWD-3.5 is a 3 1/2 digit LCD display that has a maximum range of 0000-1999. The zero and span point are fully field adjustable. The decimal point can be selected after any digit or left off completely. Using these two adjustments, almost all engineering units can be displayed easily on the display

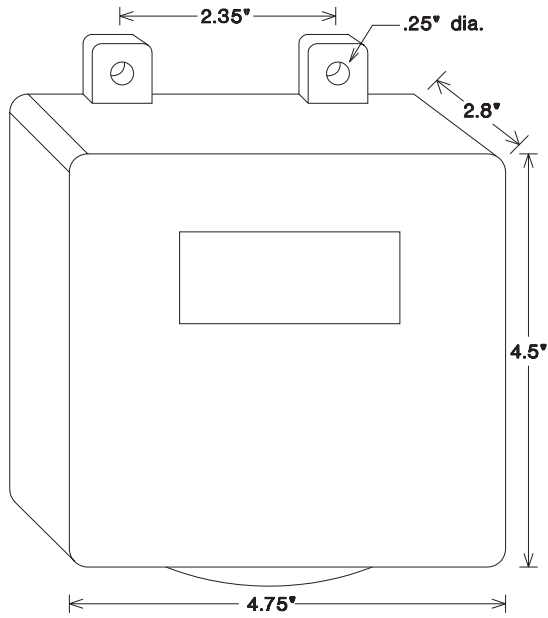
The TWD-3.5 requires only 2.5 volts from the loop and presents a maximum load impedance of 125 ohms @ 20 mA.

### Specifications:

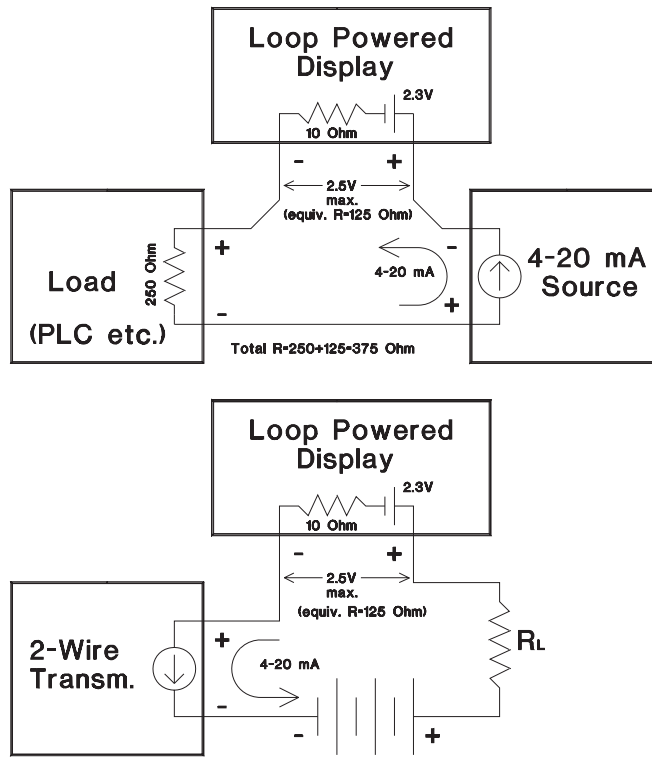
- Range: 0000-1999 (Field Adjustable)
- Input: 4-20 mA
- Decimal Point: Field Selectable  
(1.999, 19.999, 199.9, 1999)
- Power: Loop Powered
- Operating Temperature: -10 Deg. C. to + 45 Deg. C.

# TWD-3.5

## Dimensions:



## Connection:



Manufactured By:

**Pribusin Inc.**

[www.pribusin.com](http://www.pribusin.com)  
[info@pribusin.com](mailto:info@pribusin.com)

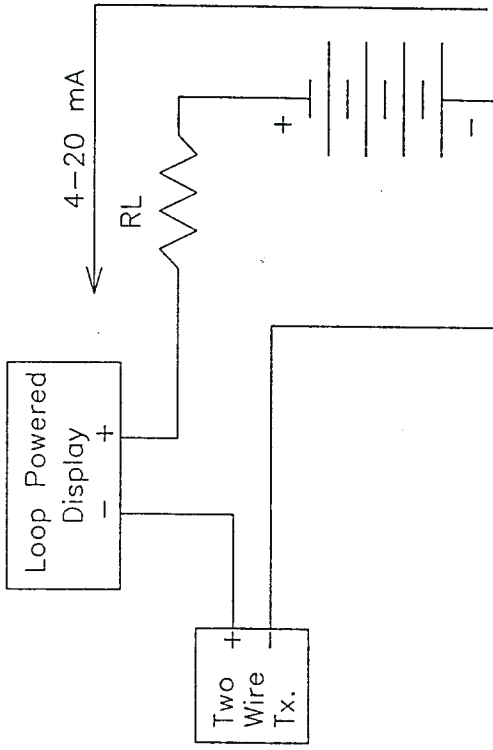
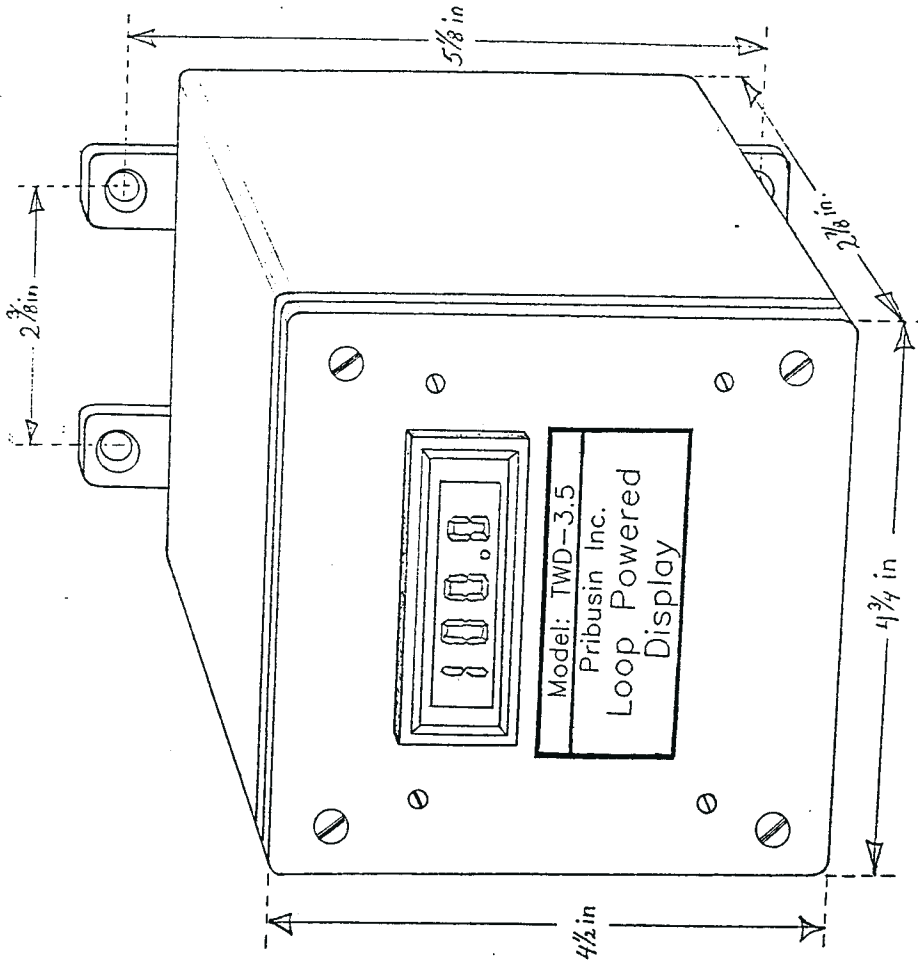
### USA:

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



**Pribusin Inc.**

SCALE: APPROVED BY: GO  
 DATE: Nov. 28/89 RECEIVED

Model TWD-3.5  
 Two Wire LCD Display

DWG. NO. 102749 REV. A  
 DRAWING NUMBER



### CALIBRATION FOR TWD-3.5

Refer to the Specifications Sheet (Drawing # 102748) for connection of the TWD-3.5 .

1. Choose the decimal point select jumper for the appropriate position of the decimal point. The decimal point will appear to the left of the digit marked next to the jumper (see Dwg# 102748). For no decimal point, remove jumper completely.
2. Determine which gain setting to use ( x10 , x1 , x0.1 ). To do this determine the span of the signal to be displayed (ie. 4-20 mA, or any portion thereof). If the signal span is small compared to the displayed value, use the x10 gain select jumper. If the signal span and the displayed range are comparable in range, use the x1 gain select jumper. If the signal span is large compared to the displayed value, use the x0.1 gain select jumper.

If the full display value can not be obtained after performing the rest of the calibration, try a different gain select jumper.

3. Apply the low end signal to the display and adjust the Zero Adjust potentiometer until the appropriate value is displayed on the display.
4. Apply the high end signal to the display and adjust the Gain Adjust potentiometer until the appropriate value is displayed on the display.
5. Re-apply the low end signal and check the display - it may need some fine adjustment. Re-apply the low end signal and check the display - it may also need some fine adjustment.
6. The display is now calibrated.