Rapid Controls Inc 605-348-7688 January 29, 2009
Box 8390 Rapid City, SD 57709 www.rapidcontrols.com

Replacing a TDU-100 display with a Rapid Controls TDD-R display.

The TDD-R can replace the TDU-100 display with only slight changes.

Power:

- The TDD-R can be powered with any DC voltage from 10 to 28 VDC. The sensor will determine what this DC voltage needs to be (+15V for TII and +24V for L Series).

- The TDU-100 has separate screw terminal sets for the input DC power supply J1 and the sensor DC power J2. The Rapid Controls TDD-R has only a single set of screw terminals for both. This will require that the wires from the power supply and the wires to the sensor be combined, usually at the TDD-R meter screw terminal. If the wires are too large to fit they should be connected externally and then brought to the TDD-R meter.

Calibration: See TDD manual for details.

The TDD-R has many settings, which can affect the displayed value.

1. Use the TDD-R Factory defaults item to return all of the settings to the Factory Preset values before you start.

2. Check the setting of TDU SW 2,3 and 4 to determine the units and use the TDD-R menu to select them.

TDU Unit Selection

Units	SW2	SW3	SW4
Inches	ON	ON	ON
Millimeters	OFF	ON	ON
Centimeters	ON	OFF	ON
Meters	OFF	OFF	ON

3. Read the gradient from the TDU-100. Enter this new value into the TDD-R Gradient

4. Read the offset from the TDU-100 and enter this value into the TDD-R Offset.

5. Set the TDD-R zero functions as desired.

6. Save these setup values using the “SAVE” function of the TDD-R.

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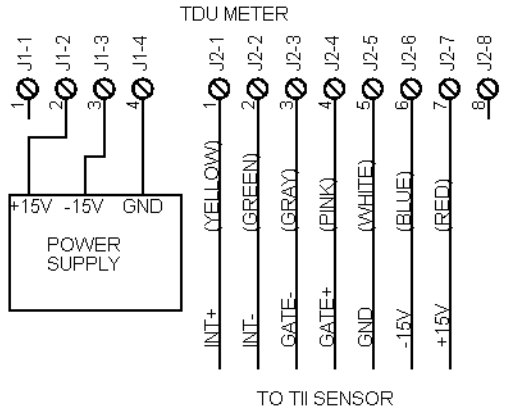
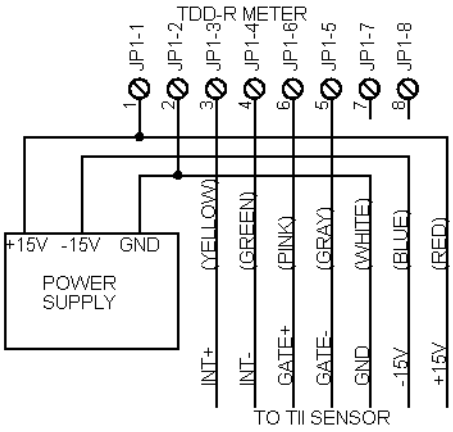
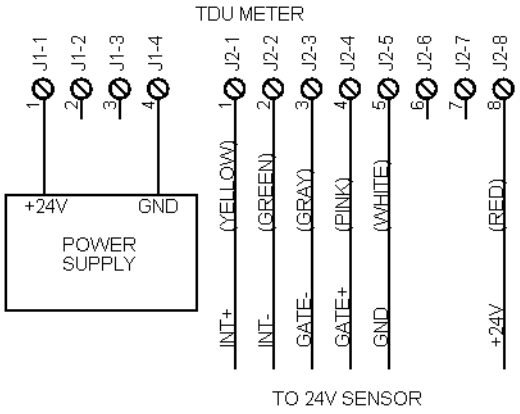
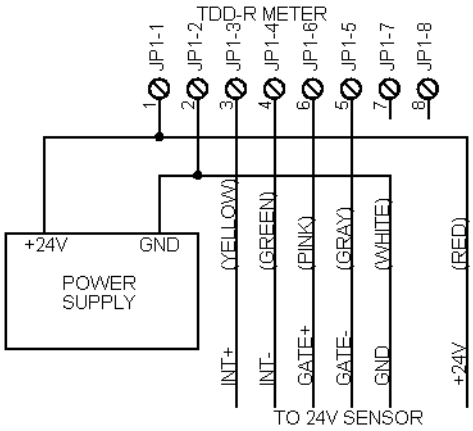




+/- 15V Sensor





+24V Sensor