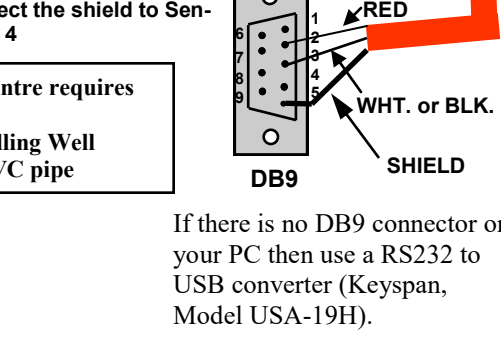
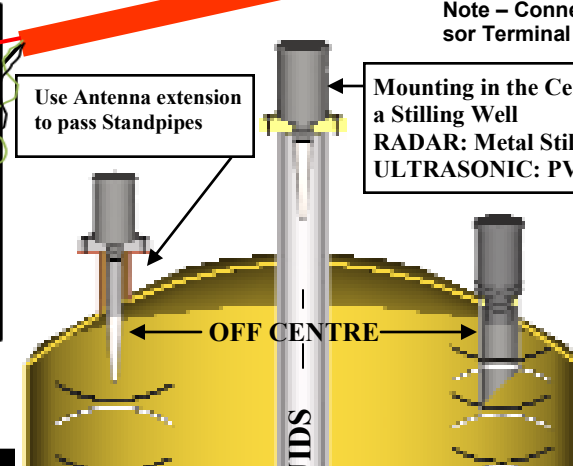
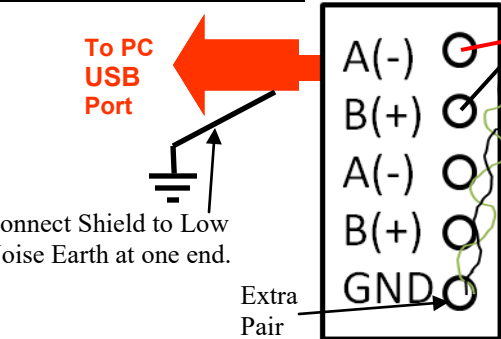
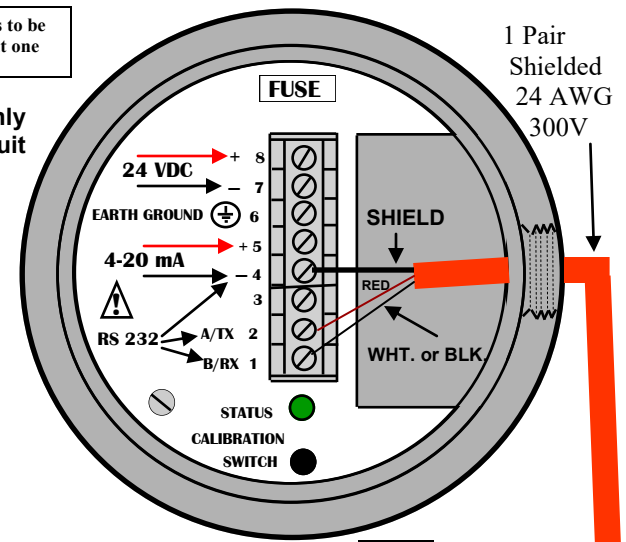
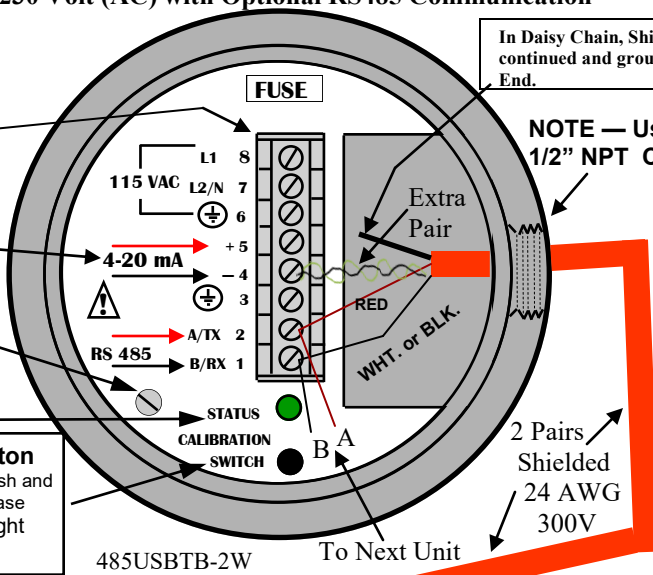


115 OR 230 Volt (AC) with Optional RS485 Communication

24 Volt (DC) with Optional RS232 Communication

**FOR A NETWORK**

- Terminal Block
- NO external voltage source, passive load only
- Control Panel Fastening Screw
- Status LED
- Calibration Pushbutton**  
Calibration with targets. Push and HOLD until yellow then release (20mA) or Hold until Red light (4mA)



**MORE WIRING (AC):** Power: 3 wire unshielded 22 AWG, 300V. Current Output: 1Pair shielded 24 AWG, 300V.

**MORE WIRING (DC):** Power and Current Output : 3 Wire Shielded 24 AWG, 300 V

**MOUNTING NECESSITIES**

**RADAR**

- Radar Rod Antenna must be free of metal Standpipes
- Minimum Distance to tanks side wall:  
Conductive material  
 $X = .09 \times \text{height of tank}$   
Non Conductive  
 $X = .18 \times \text{height of tank}$
- If using Metal Stilling Well; extend pipe so it's within 5 inches of the tanks metal bottom
- Minimum 2" ID Stilling Well

**MOUNTING NECESSITIES**

**ULTRASONIC**

- Minimum Distance to tanks side wall:  
 $X = \tan(6) \times \text{height of tank}$
- If using Plastic Stilling Well that is longer than 10 inch, cut its end at 45 deg.
- Minimum 2.5" ID for plastic Stilling Well
- In cases were there is excessive vibration, use a rubber boot to mount unit
- Don't use multiple couplers/adaptors. Must be a uniform transition with no ledges in front of transducer face

**FOR MORE INFORMATION CHECK OUT THE WEBSITE.**

**ABMSENSOR.COM : TROUBLE SHOOTING AND TUTORIALS: NON-CONTACT LEVEL DEVICES**

**USING THE SOFTWARE**



## **HOW TO START THE LEVEL DEVICE GATEWAY PC COMMUNICATION PROGRAM**

- 1) Install, Level device Gateway PC by Selecting SETUP.EXE from USB Flash Drive and follow instruction on the screen.
- 2) Click on START Windows button and select “Probe\_GatewayPC”
- 3) Choose and save an available serial communication port; Click on Select\_COM\_Port (Click STOP data link)
- 4) After a selection of the communication port, save Port number, so next time you don't have to go through that process.
- 5) Click on Start data link, you will see two bar graphs that display last 8 echoes and tank level in %.
- 6) When communication program works well you should see smiling face and green light at the screen's bottom.
- 7) For 4mA and 20mA distance calibration, go to Tools and click on 4mA Distance Calib. and 20mA Distance Calib. In the dialog box 4mA (20mA) distance calibration click OK and in the next box put in your distances.
- 8) In case of radar used on low Dielectric Materials, in Tools turn ON this parameter.
- 9) In Case of ultrasonic used on solid Materials, turn ON Solid/Liquid and Vaporized Liquids.

**FOR MORE INFORMATION ABOUT THE COMMUNICATION PROGRAM PLEASE GO TO HELP AND CLICK ON OPERATING INSTRUCTIONS.**

### **IMPORTANT NOTE:**

**Ultrasonic** or **Microwave** sensors with **RS485** communication ports can be used in **Daisy Chain Network**.

**BEFORE INSTALLATION** please assign new sensor ID to each sensor starting from 4 and up. The default ID for a single sensor is 2. Please read Help File in Gateway PC Software. In points 20 to 22 you will find out how to change sensor's ID.