




Tek-Wave 4300A



Quick Start Guide

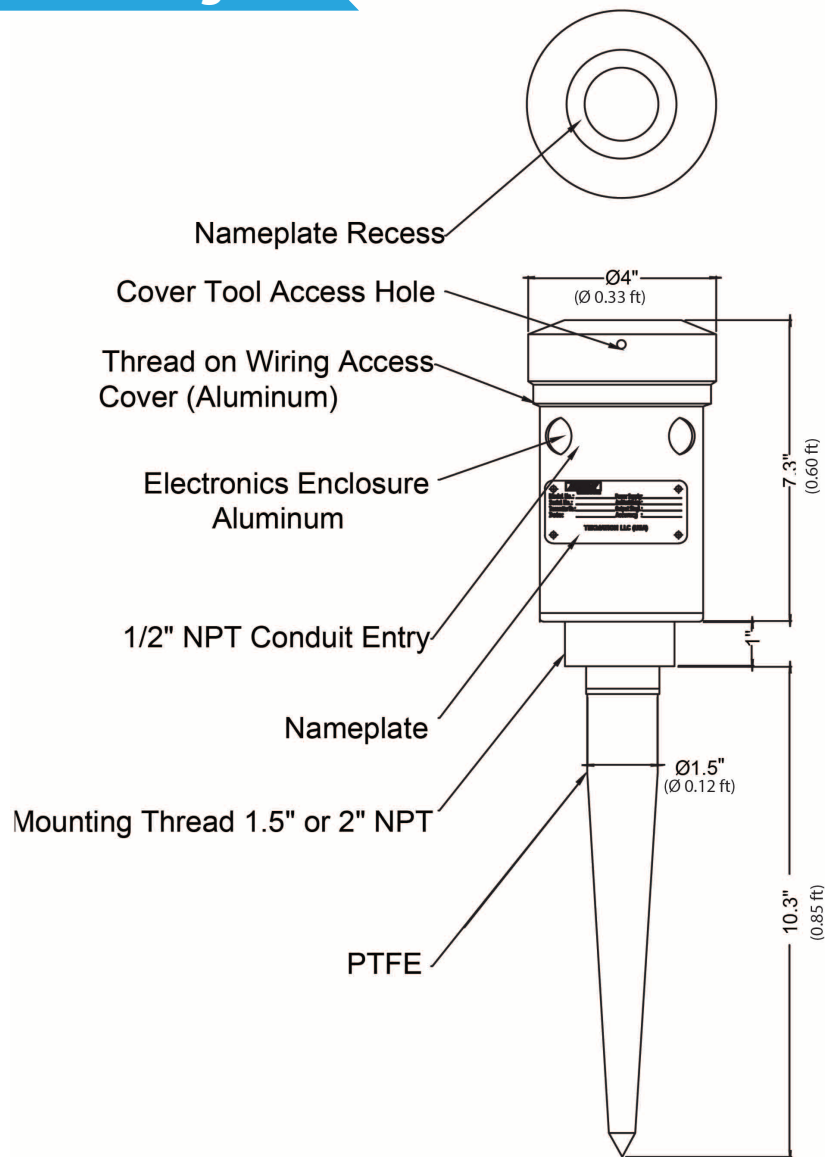
1. Getting started

-  Make sure the Level transmitter is installed by qualified personnel and in accordance with applicable code of practice
-  To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing
-  Make sure the main power to the Tek-Trol Level Transmitter is off and the lines to any other external power source are disconnected or not powered while wiring the transmitter

2. Unpack

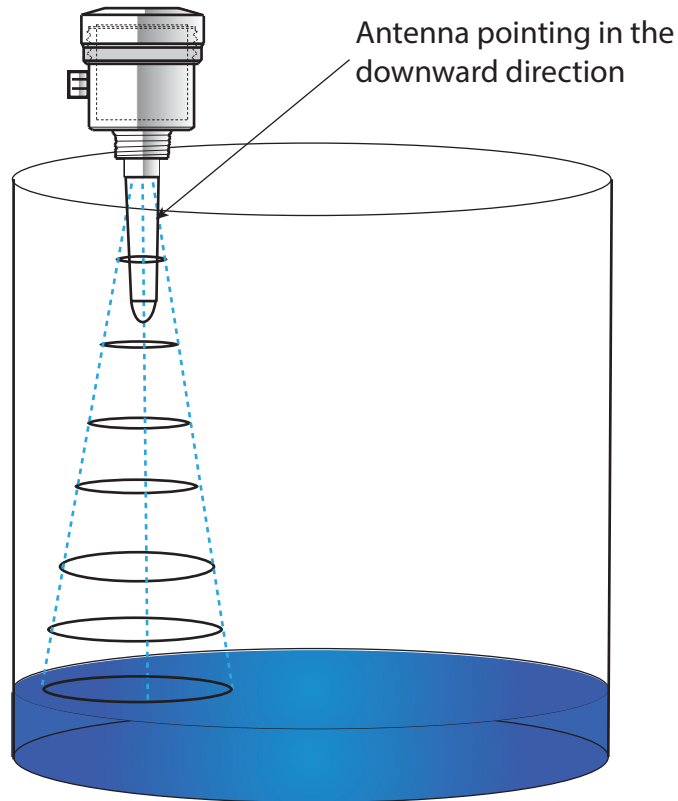
Tek-Wave 4300A Radar Level Transmitter

3. Dimensional Drawings



4. Mounting

Radar unit must be installed into metal fitting with the antenna pointing downward



Note: Tek-Wave 4300A can only be mounted on metal tanks

5. Power Supply

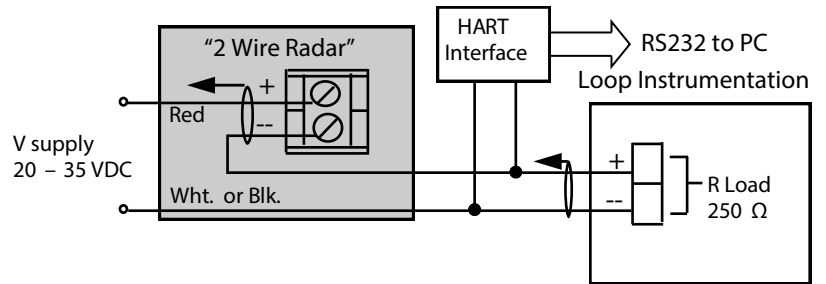
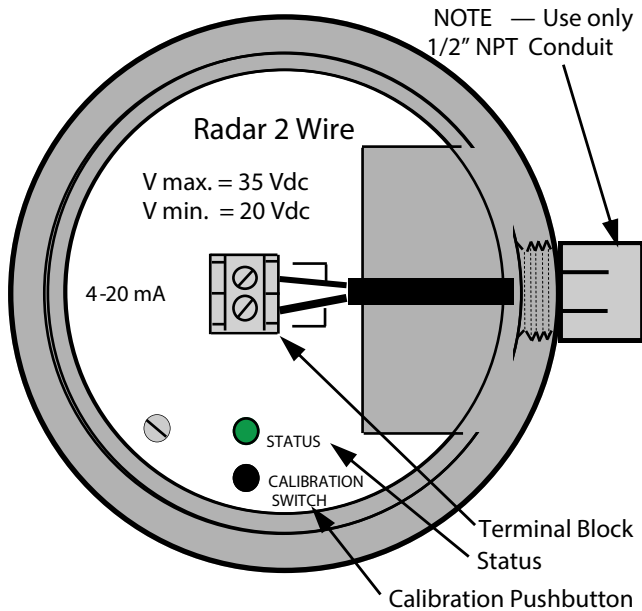
Recommended Wiring

2 Wire shielded 24 AWG, 300V Hook Up wire

Wiring Information

- Ground shield at one end only.
- All terminal block wiring must be rated for 250V.
- Terminal is for use only with equipment which has no live parts that are accessible.
- Terminal is for use with equipment which maintains basic insulation from hazardous voltage under normal and signal fault conditions.

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6. Communication

Refer to the detailed manual for information on configuration and calibration of Tek-Wave 4300A via HART communication.

7. Configuration

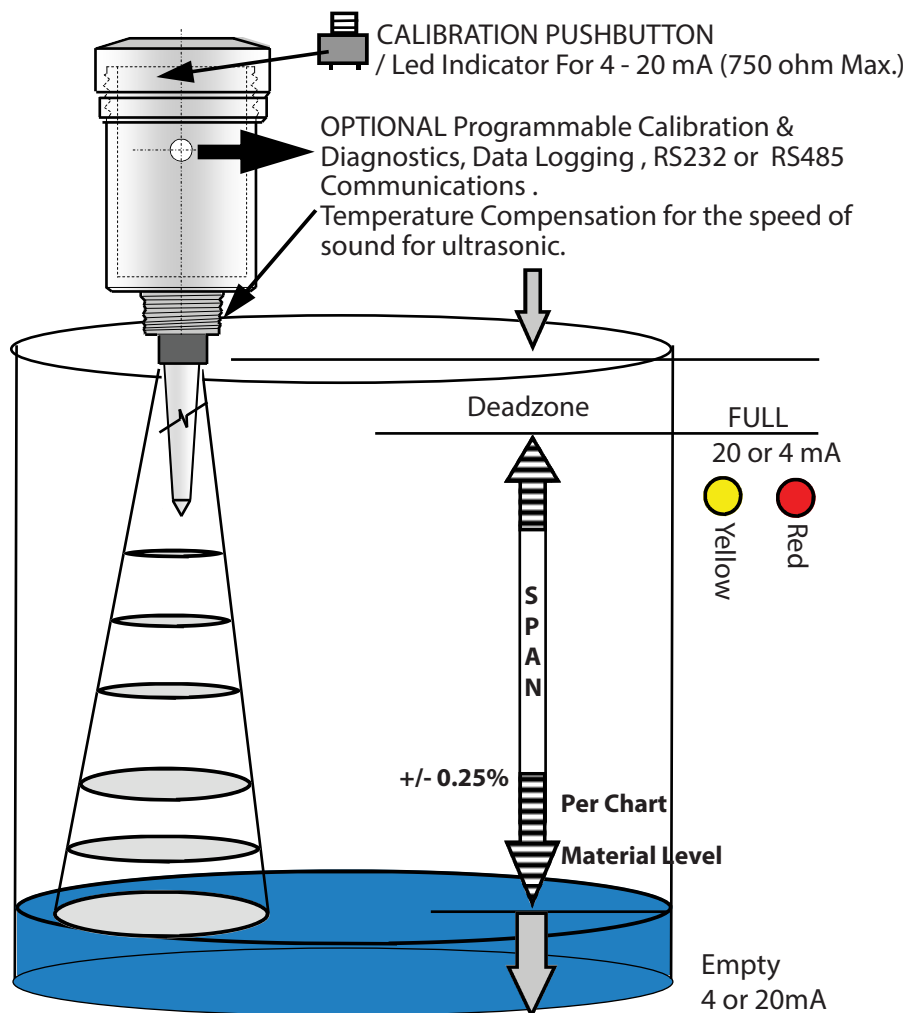
Calibration — 4-20 or 20-4 mA Output

FULL — Calibrate 20 mA or 4mA (Set Near Target)

- Calibration mode LED color is Green. (for Radar Low Dielectric Materials has to be off)
- Push button and hold until LED turns Yellow (20 mA) or push button and hold until LED turns Red (4 mA)
- Release button and observe LED flashes to acknowledge the calibration

EMPTY— Calibrate 4 mA or 20 mA (Set Far Target)

- Calibration mode LED color is Green (for Radar Low Dielectric Materials has to be off)
- Push button and hold until LED turns Red (4 mA) or push button and hold until LED turns Yellow (20 mA)
- Release button at Yellow or Red and observe LED flashes to acknowledge the calibration.



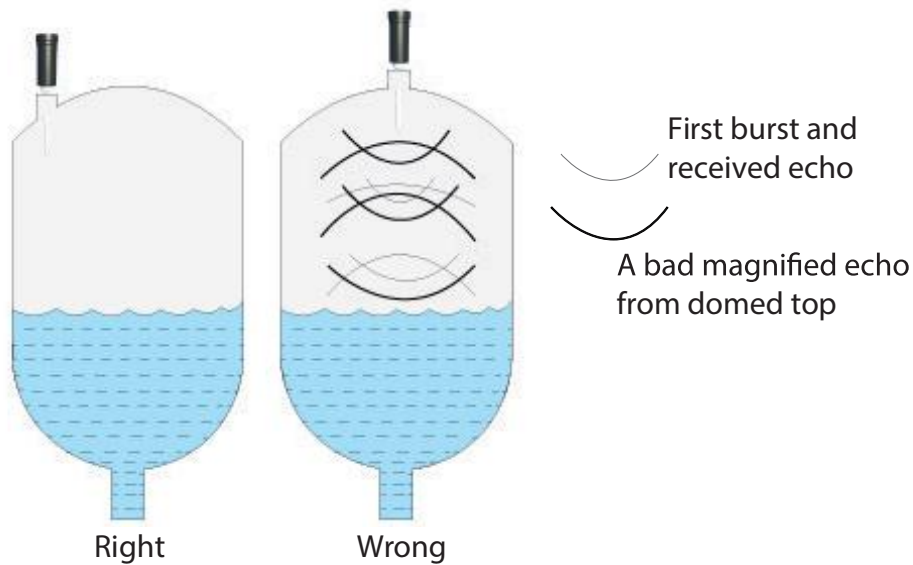
Note: For detail information please refer the manual

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7. Installation

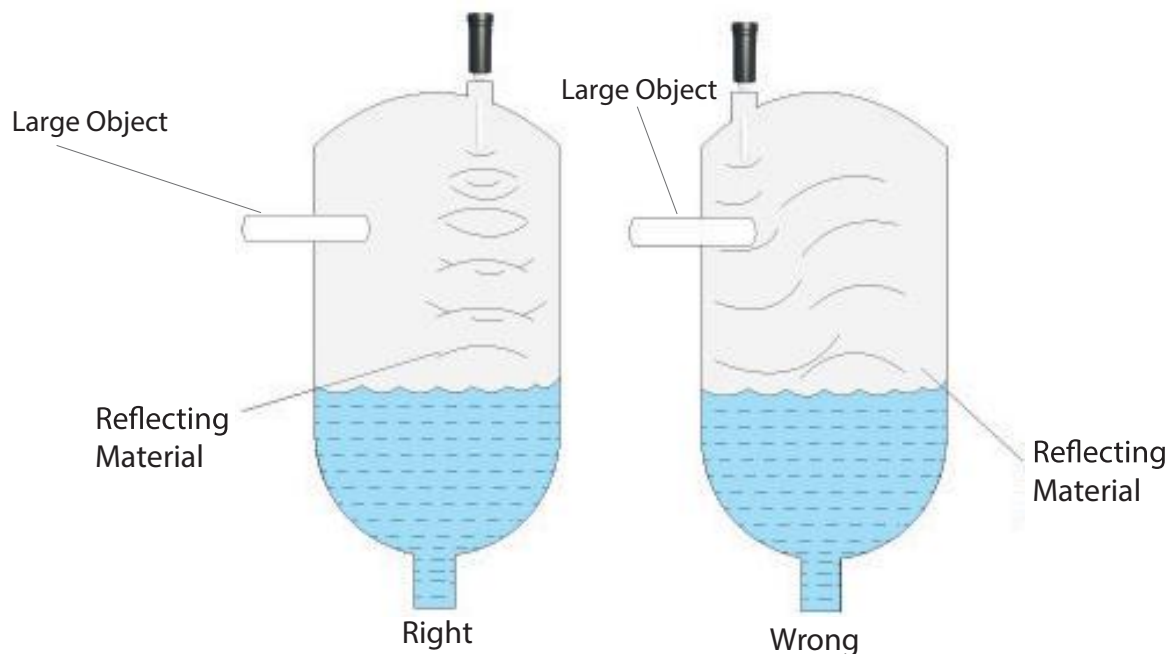
Installation on tanks with domed top

When mounting Tek-Wave 4300A in a tank that has a domed top, the mounting cannot be in the centre. The domed top works like a satellite dish and magnifies the first receiving echo. This echo actually gets stronger than the first received echo. This creates a false echo which the software locks onto. This echo is typically twice the distance of where the material actually is.

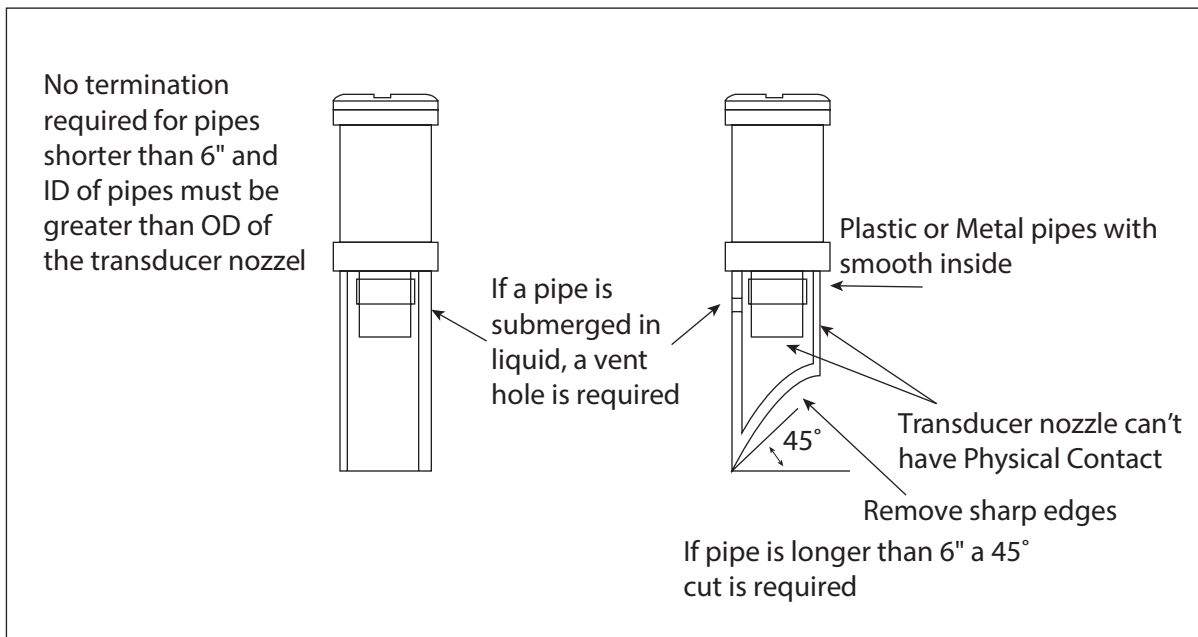
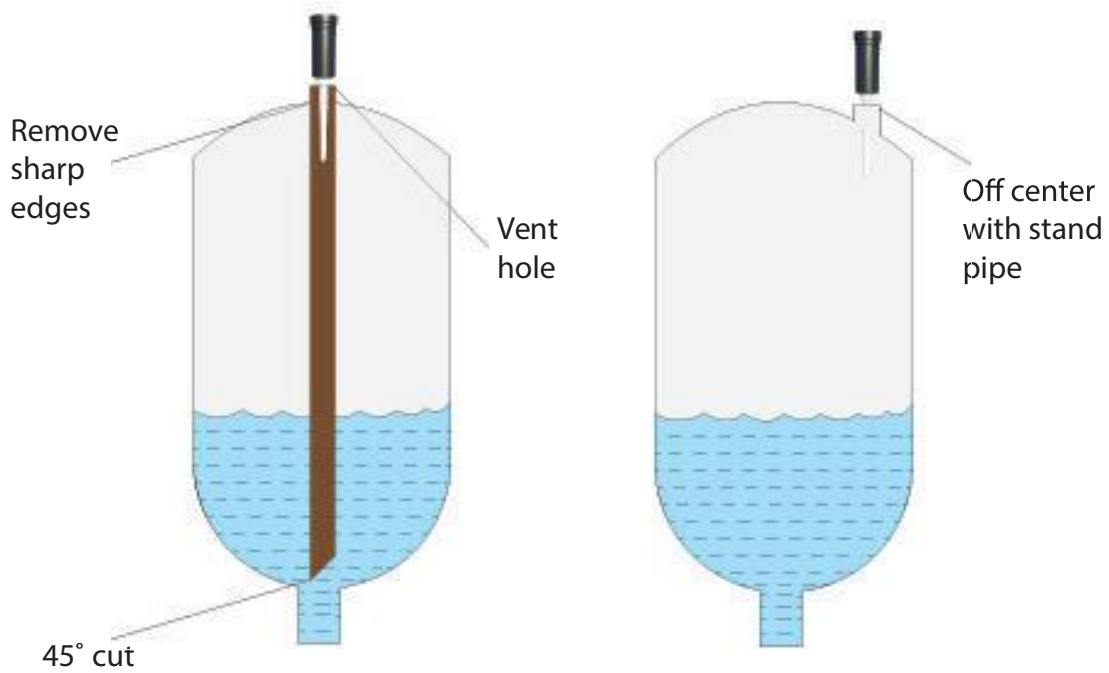


Installation on tanks with obstruction

During installation make sure that you do not have any large objects in front of transducer or antenna.



Installation on stilling well and stand pipe



Stilling Well must be within 5" of the bottom of the tank with 45° cut.



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