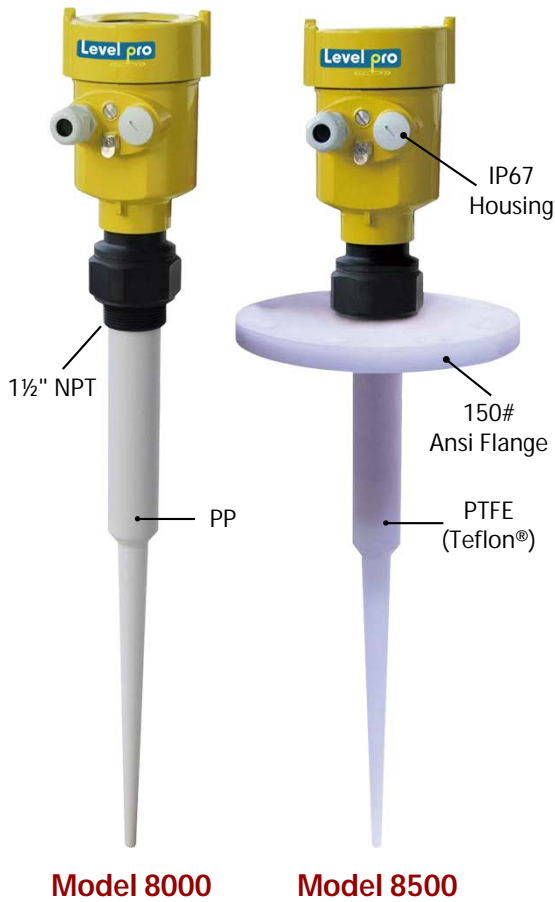


# ProScan Series PP, PTFE Level Radar Transmitter

## Measurement principle

- The ProScan Series transmitter measures the liquid level inside the tank or sump by using an all plastic (PP or PTFE) antenna or horn that sends and receives low energy radar pulses. The sensor is mounted to the top of the tank and the pulsed signal is reflected off the liquid surface, the echo (returned signal) is then picked up or received by the transmitters antenna. The time it takes is compared to known laws of physics (speed of light), once this is done the distance can be determined, and very accurately measured.
- $Distance = (Speed\ of\ Light \times Time\ Delay) / 2$
- The ProScan Series does not contact the process liquid and therefore is an excellent choice for applications that may be corrosive, coating, dirty, or crystallizing. The are temperature compensated over the entire range (-40-260°F) and can be used on to measure liquid under pressure or vacuum.
- The ProScan Series is both reliable and accurate; there is no requirement for re-calibration, and virtually zero maintenance as there are no moving parts.
- The ProScan Series utilizes a special microprocessor technology and mapping software that allows it to be used where other non-contact level sensing products fail or go lost i.e. Ultrasonic's. Heavy Foam, Heavy Vapor.



**Model 8000**

**Model 8500**

## Features

- ▶ All Plastic Design
- ▶ Small Dead Band 80mm 3.2"
- ▶ PP, PTFE Antenna (Horn)
- ▶ Low Profile
- ▶ Simple Programming
- ▶ Suitable for Dense Foam
- ▶ 4" Dead band
- ▶ Fail Safe Diagnostics
- ▶ Simple Configuration
- ▶ Push button Hart Handheld
- ▶ IP67 Housing
- ▶ Epoxy Coated
- ▶ Loop Powered

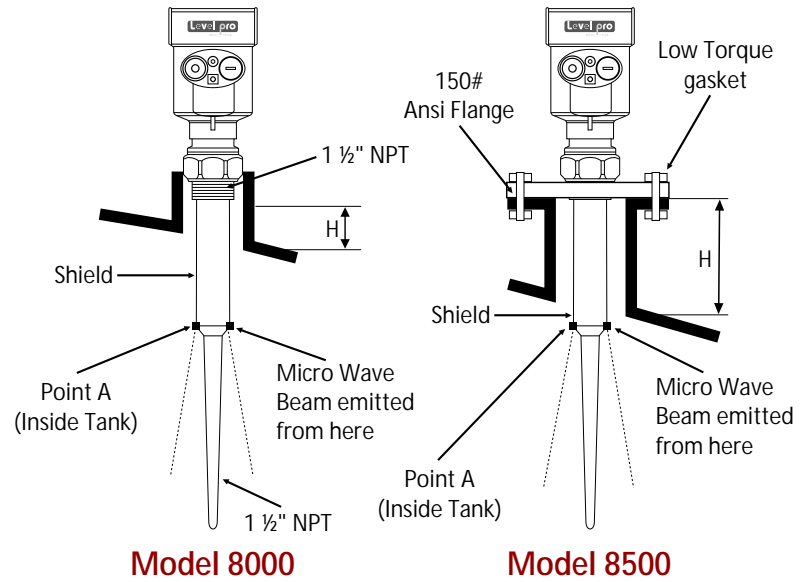
## Technical Data

Working Frequency	6.8 GHZ
Range	0-36m 0-118ft
Repeatability	±3mm 0.11"
Resolution	1mm 0.04"
Sampling	55/Sec
Response Rate	11Sec
Accuracy	> 0.1% 4mm 0.16"
Temperature	PP (-20 -100°C) (-4 -212°C) PTFE (-40 -130°C) (-40 -266°C)
Output Signal	(4-20mA) Hart
Display	4 Digits LCD
Power Supply	24 VDC
Connection	1 1/2" NPT or 150# Ansi Flange
Materials	PP, PTFE
Inter	RS485 or USB
Programming	Hart Handheld Push Button
Enclosure	IP67 Provided
Dead Band	80mm 3.2"



## Standard Installation

- Ensure the radar antenna is not tilted towards the tank wall.
- The rod antenna at point A must be inside tank. (See Diagram)
- The vertical 90 placement of the sensor the beam must be perpendicular to liquid.
- No tools are Required to Instal 1 1/2" NPT



## Dimensions of Instruments

