

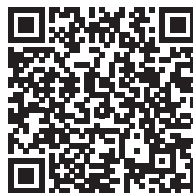
# True Echo™ Guided Wave Radar Level Transmitter Series: GWR200



The True Echo™ GWR200 takes the mystery and frustration out of level measurement. With programmable 4-20 mA or RS-485 Modbus outputs, and innovative signal analysis, the True Echo™ can accurately measure solids, liquids, and slurries at depths up to 80 feet. NEMA 6 housing is standard, and 316 SS or PTFE-coated 316 SS probes operate in process temperatures from -40° to 398° F. Robust and reliable, the True Echo™ makes difficult level measurements easy.

## FEATURES

- Auto Calibration to any dielectric
- Easy setup with True Echo™ Software
- Range up to 10 feet with SS rod, 80 feet with cable
- Not affected by foam, vapors, or dust



# True Echo™ Specifications



## Performance

- Measurement Range:  
1.25' to 80' with minimum dielectric constant of 0.3
- Accuracy:  
+/- 0.039" or 0.02% of measured distance  
(whichever is larger)
- Response Time:  
100 samples/second

## Connectivity

- Output:  
4-20 mA, Isolated 4-20 mA  
RS-485 Modbus

## Environmental

- Maximum Operating Temp:  
Electronics: -40° to 158°F (-40 to 70°C)  
Process/Probe: -40° to 398°F (-40 to 203°C)
- Maximum Operating Pressure:  
-14.50 PSI to 580 PS
- Enclosure:  
NEMA 6: Coated Epoxy Aluminum with IP67 Sealing

## Electrical

- Loop Resistance:  
750 ohms with 24 VDC loop supply  
250 ohms with 24 VDC internal supply
- Input Voltage:  
12-30 VDC
- Power Consumption:  
<3W @ 24 VDC

## Programming

- Programmable using APG True Echo™ software and True Echo™ Communication Tool

## Physical

- Probe  
Rod: 316 SS, 0.25" diameter  
PFTE-coated 316 SS, 0.395" diameter  
Cable: 316 SS, 0.195" diameter  
PFTE-coated 316 SS, 0.34" diameter
- Max Tensile Load  
4,270 lbs

# Model Configuration Options

Model Number: GWR200 -      -      -      -      -      -      -       
                                  A      B      C      D      E      F      G

## A. Wiring Option

- 4** 4-wire

## B. Probe Type

- R** 316 SS Rod (120" max)
- T** 316 SS PTFE Coated Rod (120" max)
- W** Wire Cable (960"/80 ft max)
- X** PTFE Coated Wire Cable (960"/80 ft max)

## C. Enclosure Rating

- N6** NEMA 6

## D. Process Connection

- 0**<sup>▲</sup> 1.5" NPT
- 1** 1.5" ANSI 150# Flange

## E. Conduit Entries

- 1**<sup>▲</sup> Two 1/2" NPT
- 2** Two Cable Glands
- 3** One 1/2" NPT, One Cable Gland

## F. Probe Length

- Probe Length in Inches (15" to 120" or 960"/80 ft)

## G. Options

- NN**<sup>▲</sup> None
- 04** PTFE Isolation Gasket

▲This option is standard

