Level Transmitter for Water Wells

Flexible Cable, Radio Frequency



measuring

monitoring

analyzing

NRF-1W



- Flexible Cable Lengths up to 1000'
- Accuracy of ± 1% of Span
- High Frequency Propagation Reduces Errors of Coating Media
- 3/4" NPT Stainless Steel Fitting
- PFA-Clad 3/32" Diameter Cable
- Flexible, Segmented, 1/2" Diameter Stainless Steel Cable Weight
- Non-Interacting Zero and Span Adjustment



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Description

The NRF-1W level transmitter is designed to measure water levels in ground pipes of 3/4" and larger. All wetted materials are PFA or 316 stainless steel. The flexible segmented weights enable easy installation around slight bends in pipes. The micro-processor based transmitter converts a change in capacitance into a linear, highly accurate 4-20 mA signal which is mounted in the enclosure. Optional remote mount electronics are available. The NRF-1W operates at a higher frequency than similar devices, up to 2 mHz max, minimizing the effects of coating media. The compact and advanced micro-processor based design makes installation and setup a simple task.

Applications

- Deep Well Level Measurement
- Water Storage Tanks
- Waste Water Treatment Plant
- Chemical Holding Tanks
- Monitoring Reservoir Levels



Accuracy: \pm 1% of Span (at Calibration Conditions) Repeatability: \pm 0.1% of Span (at Calibration Conditions)

Electrical Specifications

 $\begin{array}{lll} \mbox{Input Power:} & 12\text{-}36\ \mbox{V}_{DC} \\ \mbox{Output:} & 4\text{-}20\ \mbox{mA},\ 2\text{-wire} \\ \mbox{Max. Loop Res:} & (\mbox{Vs-10})\ /\ 0.02\ \mbox{Ohm} \end{array}$

Calibration: Via 4 Push-button Switches

Max. Length: 1000'

Wetted Materials

Fitting: 3/4" or 1-1/2" NPT, 316 SS

Cable: PFA-Clad Weights: 316 SS

Temp. Range

Process: -100...350 °F **Ambient:** -40...160 °F

Enclosures

 Polyamide:
 NEMA 4/IP 65

 Aluminum/SS:
 NEMA 4X/IP 66

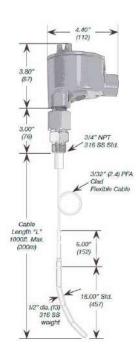
 Max. Pressure:
 100 PSIG @ 70 °F

 50 PSIG @ 300 °F

50 PSIG @ 300 °F 14 PSIG @ 350 °F



Dimensions



Order Details (Example: NRF-1W 1111)

Model	Enclosure	Fitting	Cable Type/Material
NRF-1W	1 = Polyamide 2 = SS 3 = Aluminum	1* = 3/4" NPT, 316 SS 5 = 1-1/2" NPT, 316 SS	11 = Single Cable, PFA-Clad43 = Dual Cable, One 316 SS, One PFA-Clad
Additional Information Please Specify Desired Cable Length when Ordering as L = XX", ie. L= 1000"; Please complete online app guide.			

^{* 3/4&}quot; NPT fitting is only available with a single cable