

VEGAFLEX 82N

Guided Wave Radar Indicator



OVERVIEW

The VEGAFLEX 82N Guided Wave Radar (TDR) is a microwave sensor used for continuous liquid level and interface measurement. This specific US Navy configuration is currently installed on dozens of CG, DDG, LCS, LHA and LHD Class vessels with great success.

Common applications include:

- Compensated Fuel Oil Tanks
- Contaminated Oil Tanks

FEATURES

- Maintenance free reliable operation
- Simple mounting and installation
- Unaffected by steam, dust, foam, or changes in density
- Operates independently of noise, pressure, or temperature fluctuation
- Customizable in-tank rods for specific tank and customer requirements.
- Epoxy Coated in-tank hardware significantly reduces the potential for fouling

VEGAPULS 82N SPECIFICATIONS

Technical Data	
Measuring Range	Coaxial: 84 Feet
Measuring Interval	0.35 Second
Resolution	1mm (0.039")
Frequency	C-Band
Accuracy	± 2mm (± 1")
Number of Interfaces	2
Upper Fluid	1.3 - 5.0 DK
Difference of DK	≥ 10 DK between upper and lower fluid
Minimum Thickness of Top Fluid	4"
Environmental	
Vessel Pressure	150 PSI
Operating Temperature	Housing: -40 °C to 71 °C Antenna: -40 °C to 150 °C
Mechanical	
Dimensions (W,D,H)	Housing: 3.125"W x 3.5"D x 7.75"H Coaxial: Ø 74 mm (2 29/32")
Weight	Sensor w/ Flange: 3.71kg (8.25 lbs) Tube and Rod: 1.6kg/m (3.6 lbs/ft)
Antenna	Coaxial, 74 mm (Ø 2 29/32") diameter
Electrical	
Supply Voltage	14 to 36 VDC
Max Current	22 mA
Signal Output	4 to 20 mA/HART
Materials	
Wetted Parts	Cu-Ni (w/ epoxy coating) or 316L
Display	LCD w/ 4-key operation and integrated lighting
Seal	FKM (SHS FPM 70C3 GLT)
Housing	Plastic single chamber / IP66/IP67 or 316L
Approvals	
FCC	Part 15, no restrictions - no site license required
Military Approval	ASTM-F2044-00
Shock	Grade A, MIL-S-901D
Vibration	MIL-STD-167-1
EMI	MIL-STD-461 E