ECEFastNZLtd®

Pulse Radar Level Transmitter

Level transmitter

26GHz Pulse radar -non contact level sensor

State of the art measurement technology combined with robust and durable construction delivers accurate measurements without contact Effective for conditions where ultrasonic measurement is problematic – vapours, condensation, gases and path interference. Monitor water, chemicals, sewage, diesel and oil levels in metallic and non-metallic tanks. Advanced echo management and graphic user interface to maximise performance

Accurate measurement
High signal and low noise for ±10mm accuracy in ideal conditions

Bypass interference
Effective with variations in the liquid surface e.g., agitation and temperature variations causing vapours, foam and condensation which prevent ultrasonic measurement.

Challenging environments
Can be used safely and efficiently in high temperature, high pressure or corrosive environments. Non-contact is ideal for products with hygiene concerns. Smaller vessels and bullet tanks for low blanking distance

Reliable
Low voltage, multi-pulse technology improves accuracy, useful life and reliability. HART protocol allows remote set up for difficult or dangerous mounting positions.

APPLICATIONS

- Remote water tanks
- Sewage & wastewater
- Diesel or oil storage
- Chemical day tanks / process tanks
- Vaporous / corrosive chemical storage
- Below grade sump applications
- Inaccessible sites

Display & programming

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Item	Performance & Parameter	
Range & Accuracy	Measuring range up to 10m with ±10mm accuracy	
Materials	Pole antenna - PP Housing - Aluminium Flanges – ANSI 316L	
Working environment	Working temperature Storage temperature Relative humidity Pressure of utilisation Resistance to vibrations Operation frequency	-40 - 130°C -40 - 85°C < 95%RH -1 to 3 bar Mechanical vibration 10m/s^2, 10-150Hz 24~26 GHz
Process connection	G1½" A–NPT	
Operation	Angle emission lobe Interval of measure Dead Zone Resolution display	18° ~1sec ~ 300mm 0.5 mm / 1.0 mm
Supply 2 wires version	Input voltages Absorption max. Ripple allowed	12-36VDC 22.5mA <100Hz, Uss>1V; 100Hz -100KHz, Uss<10mV
Output	Output signal Resolution Fixed signal for abnormal	2 wires 4-20 mA, HART 1.6µA 20.5mA; 22mA; 3.8mA
Integration time	0-20s, programmable	

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