

LEVEL TRANSMITTERS





Pressure



Level



Temperature



Datalogger



Control and Automation









LEVELS

An ultrasonic level transmitter is mounted on the top of the tank and transmits an ultrasonic pulse down into the tank. This pulse, travelling at the speed of sound, is reflected back to the transmitter from the liquid surface. The transmitter measures the time delay between the transmitted and received echo signal and the on-board microprocessor calculates the distance to the liquid surface.

The radar level sensor is a measuring instrument based on the time travel principle. The radar wave runs at the speed of light, and the running time can be converted into a level signal by electronic components. The probe sends out high-frequency pulses and conducts them along the cable and rod probes. When the pulses meet the surface of the material, they are reflected back by the receiver in the meter, and the distance signal is converted into a level signal. With the smart electronics it offers various output signals with reliable and accurate measuring.

Ultrasonic Level Transm	nitter Radar Level Transmitter	Radar Level Transmitter
ETRANS-ULT	ETRANS-RDR-30	ETRANS-RDR-80
Ultrasonic Level Transmitt	er Technical Specifications	
Measuring Bange	0.35 m. 0.310 m. 0.515 m. 0.520 m. 0.850 m	
Accuracy	$\pm 0.5\%$ ES (Standard) $\pm 0.25\%$ ES (Special Ontion)	
Process Temperature	-20 +60°C (Standard) -20 +80°C (Ontional)	
Process Connection	M48x2 M60x2 M78x2 M108x2 G1" G1%" G2" Male Thread	
Housing Material	ABS	
Power Supply	2036 VDC	
Output	420 mA, RS485, 2 x SPDT Relay (250 V, 10 A)	
Protection Class / ATEX Approval	IP65 / Ex db IIC T6 Gb (Optional)	
Special Option	LCD Local Display with 4 push buttons	
Radar Level Transmitter Te	echnical Specifications	
Measuring Range	0,130 m (Liquids and Solids)	
Accuracy / Beam Angle	+3 mm / 6°	
Process Temperature	-40+85°C	
Process Connection	M24x1.5	
Housing Material	Plastic	

aonig material	FIDSUC
wer Supply	1230 VDC
tput	RS485 MODBUS, Bluetooth, LORA and 4G (Optional)
otection Class	IP67

Radar Level Transmitter Technical Specifications		
Measuring Range	0,150 m (Liquids and Solids)	
Accuracy / Beam Angle	±2 mm / 8°	
Process Temperature	-40 +120°C	
Process Connection	G1" Male Thread, DN50DN100 Flange	
Wet Parts/Housing Material	1.4404 (316L) Stainless Steel / Aluminum	
Power Supply	220 VAC, 24 VDC	
Output	420 mA, HART	
Protection Class	IP67	
ATEX Approval	Ex ia IIC T6 6a	





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