



TDR RADAR LEVEL TRANSMITTER:

PRINCIPAL

Radar level meters are compact measurement devices including an transmitter of microwave pulses, central processor unit and display module. The electronics transmits very short electrical pulses (0.5 ns), which are linked to a one wire transmission line (measuring electrode). Measuring electrode can be created of rod or rope. The pulse propagates along the electrode in the form of electromagnetic wave toward the level surface, where it is partly reflected and the reflected component is returned to the receiving module of the electronics. The electronics measures the time of flight of electromagnetic wave and the instant distance to the surface level is calculated. According to the level height, the level meter output is set and the measured value is displayed on the display.



Features

- Stainless steel rod or rope electrode
- Measuring range up to 40m
- Linear measurement in non-conductive and in differently shaped containers
- Quick view measured values on the display
- Simple installation and setting
- Current output (4 ... 20 mA), HART[®] protocol.

Applications

- Suited to continuous level measurement of various liquid, mush and bulk-solid materials.
- Universal use, direct mounting into containers, silos, vessels, reservoirs, etc.

TECHNICAL SPECIFICATIONS:

Supply Voltage	: 8.....36V DC
Output	: 4. 20mA, HART [®]
Basic error	: 1) (for reference reflector) $\pm 5\text{mm}/$ $\pm 3\text{mm}/ \pm 2\text{mm}$
Resolution	: 1 mm
Maximal length of measuring electrode	: 40m
Damping	: 199 s
Warm up time	: cca 60 s
Internal resistance/	
Electric strength	: 10 k Ω
Coupling capacity /	
Electric strength	: 5 nF / 500 V AC
Mounting	: G 1"
Application	: Rivers , Lakes, Shoal

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