

RADARPU 66 RADAR LEVEL TRANSMITTER

Radar sensor for continuous level measurement with horn antenna or level tube 2" mounted (C-band 6GHz). Particularly suitable for the measurement of liquids and solids in difficult and extreme process conditions.

- Non-contact measurement independent of process pressure, process temperature and process gas
- Ability to measure up to 100mm from the edge of the antenna
- Measuring accuracy + / - 10mm
- ECHOFOX signal processing with Fuzzy-Logic



DESCRIPTIONS

An antenna system radiates the surface of the product to be measured very short microwave pulses with low emission power within a frequency band C and K, which are reflected and received back by the antenna system. The pulses propagate at the speed of light and the time of return from the time of issue to that of the received signal is proportional to the level in the vessel. A particular process of transformation of time allows you to measure with precision and safety these days extremely short. The most modern microprocessor technology and the proven software ECHOFOX discriminate the level echo from the many false echoes and measure it exactly. It is sufficient to set the measures of the tank to obtain the indication of a signal proportional to the level. You do not need to calibration with a full tank and empty tank.

The microwave propagation is not affected by the influence of temperature and ambient pressure. Radar sensors are therefore ideal for use in extreme process conditions and withstand pressures from vacuum up to 160 bar and temperatures from -40 ... 400 ° C.

Fluctuations in the composition or the complete product changes do not affect the measurement result and do not require recalibration.



TECHNICAL SPECIFICATIONS

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| Applications: | storage tanks or process in extreme conditions. (in the presence of oils require a higher dielectric constant 1.7 ... 2) |
| Range: | up to 30 m. |
| Process temperature: | -40...400°C |
| Process pressure: | -1...160 bar (-100...16000 kPa) |
| Accuracy: | +/- 10 mm |
| Conformity on request : | ATEX II 1G, 1/2G, 2G EEx ia IIC T6, + WHG, + GL approval |
| Materials, versions: | without horn antenna for level tube with horn antenna ø 75, 96, 145, 195 mm/1.4435(316L) |
| Process connection/material: | Flange DN50 - DN80 PN40 form C, DIN2501/1.4435(316L) Flange DN100 - 150 - 200 - 250 PN16 form C, DIN2501/1.4435(316L) On request RF, ANSI B16.5 |
| Seals/process temperature: | Viton/ -40...150°C Kalrez 6375/ -15...150°C graphite and ceramic/ -60...250°C graphite and ceramic/ -60...400°C |



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