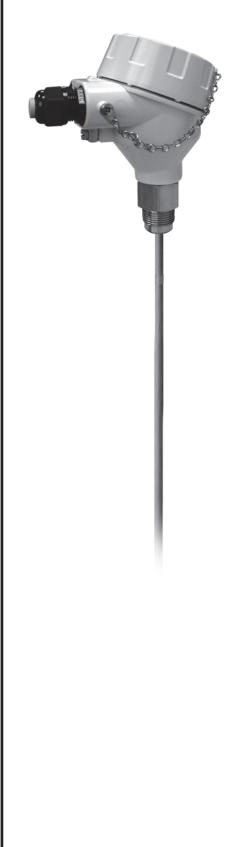
## TDR technique – LEVEL TRANSMITTER BAMOFLEX



- TDR Probe, 4 wire technique
- Continuous measurement, 4-20 mA output signal
- Scalable from 100 to 6000 mm
- Pressure limits: -1 ... 40 bar
- Accuracy: ± 3 mm
- Versions ATEX : II 1/2 G II 1/2 D

## PRINCIPLE

A TDR Probe is working as a Time Domain Reflectrometry application.

Electromagnetic pulses emitted through a stem, move along with the light speed. When they come across the fluid surface, they are reflected. The electronic convert the time for reflection in distance, from which value the volume or level of stoked fluid is calculated.

Micro pulses are moving only in the tank atmosphere; gaseous atmosphere or vacuum do not interfere on the measurement.

## APPLICATION

The probe BAMOFLEX fits on a flange or thread connection, vertically from the top of the tank. The sealing is made of KLINGERSIL®.

**The single antenna** is convenient for a tank where no wall effect or proximity of objects could interfere 30 cm around the stem.

**The coaxial antenna** is universally convenient where stainless steel is chemically compatible. It is recommended for plastic tanks and/or open tanks.

**A basic configuration** is done directly on site through DIP switch, push button and LED; all requirements for a perfect operating work are completed on the instrument. The BAMOFLEX is totally galvanic insulated between outputs / inputs / tank potential in order to avoid an electrochemical corrosion.

## TECHNICAL FEATURES

Housing: Protection: Antenna: Insulation material: Process connection: Power supply: Measuring loop: Pressure limits: Temperature limits: Stem: Aluminium alloy IP 68 Stainless steel 316 L PEEK Stainless steel 316 L, 3/4" G or NPT 12...24 V cc 4 wire technique -1....+ 40 bar -40...+ 150 C° for the fluid Single rod Ø 6 mm – Length from 100 to 3000 mm Coaxial Ø 17.2 mm – Length from 100 to 6000 mm





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