



FETX-9550

TECHNICAL SPECIFICATION

PROBE (No moving parts)

- 1) Application: solids / liquids
- 2) Process Temp. : 0 to 260°C or 600°C
- 3) Insertion length : 200mm or upto 40meter customer specification.
- 4) Process connection: flange / 40 NB socket
- 5) Ingress protection : IP66
- 6) Electronic : remote (no electronic in probe)
- 7) Cable connection : 2" ET gland
- 8) Probe head: cast aluminium
- 9) Enclosure : weather proof or flame proof
- 10) Insulation : PTFE /CERAMIC

RF TYPE LEVEL TRANSMITTER

Analogous radio frequency based level transmitter for solids, liquids and slurries unaffected by coating, material composition, no electronics and moving parts on sensing probe.

RF TYPE LEVEL TRANSMITTER

RF DESIGN

Rf principle based analogous level transmitters have been designed based on the considerations discussed and various other aspects. FSE's Rf level sensors are highly reliable for use with materials that are conductive or nonconductive. Granular or slurries fines to large particles and contaminated or pure liquids at varying temperatures and pressures.

DESCRIPTION

FSE's Rf level transmitter series 9550 comprises of two parts, namely a sensing probe and an electronic transmitter the sensing probe has an active section and a shield.

And a shield section. Insulated from each other as shown in the diagram a dust proof probe head is provided to cover the terminals of the Rf signal cable meaning hereby. The probe contains no electronics or any other sensitive element.

The electronic transmitter is super ately housed in a dust proof enclosure. Designed for outdoor duty, and is mounted nearby at a convenient location. It contains all the electronics, adjustments and other sensitive elements, and is connected through an Rf coaxial cable to the sensing probe.

FUNCTION

FSE's Rf level transmitter series 9550 works on the radio frequency principle. Independent but identical low power Rf signals equal in frequency, phase, amplitude and wave shape generated in the electronic transmitter are provided to the active and shield sections of the sensing probe. Whereas the reference ground of electronics is connected to the vessel shell. The signal provided to the shield section is maintained constant by use of a compensating circuit in the electronic transmitter. While the signal applied to the active section varies with change of media to stored material having intra particle cohesive contact from the proce to the vessel shell.

The suspended particles or material in - transit eo not have cohesive inter particle contact. Thereby having no role in this Rf principle of level sensing.

The variation in the active signal is compared with the constant shield. The difference is analyzed and converted into a current parameter (output). Analogous to the level of material available effectively for use in the bin/vessel.

ELECTRONIC

- 1) Range up to 40 meters
- 2) Solid state, Circuitry
- 3) Power supply 220/110 VAC or 24V AC/DC
- 4) Output 4-20 m.A.
- 5) Display indication (optional)
- 6) No recalibration
- 7) Set point 2 or 4 Nos. SPDT 3 Amp
- 8) Cable (remote for probe) 100 feet (max.)