REFLEX TDR VF2

The Reflex VF2 Series range of TDR products is ideal for the measurement of liquids, powders and granules to a range of 40m.

Unaffected by pressure, temperature, viscosity, vacuum, foam, dust, changes in dielectric constant or coating of the probe, the VF Series can measure virtually any product in either Direct, Automatic or TBF mode utilising any one of it's seven probe types.

The VF2 TDR transmits low-intensity electromagnetic pulses of approximately one nano second width along a rigid or flexible conductor. These pulses move at the speed of light and when the pulses reach the surface of the product to be measured, the pulses are reflected back to the signal convertor.

The device then measures the time from when the pulse was transmitted to when it is received. This is then divided by two as this is the time equivalent to the distance from the reference point of the device to the surface of the product. The time value is then converted into an output current of 4 - 20mA.

The VF2 is fitted with new DPR advanced software for dynamic parasite rejection which automatically removes false signals and improves stability and accuracy of the measured signal.

Product Highlights

- Universal technology
- Remote display
- Integral dispplay and programmer
- Parasite rejection software
- Small process connections
- Multiple housing
- SIL 2 safety level
- 2 wire loop powered
- Corrosion resistant
- ATEX options

Specification

Function:	Level/Distance/Volume
Measuring Range:	0 - 40 m
Environmental Protection:	IP65
Process Connection:	Thread and Flange
Power Supply:	24 VDC
Analogue Output:	4-20 mA
Communication:	HART / PROFIBU0S PA
Relay Outputs:	N/A
Display:	Option for integral or remote
Max. Process Temperature:	300ºC
Accuracy:	±10mm or 3mm optional

Measurement
Liquids - Solids - Pastes

Range
0 - 40 m

Application
Oils - Chemicals - Water - Solvents
Sand - Cement - Lime - Paint - Glues
Pellets - Powders

Industries
Offshore
Oil
Power
Pharmacutical
Water and Waste
Process
Quarry
Mining