S2 Safety System

RSP Technology do Brasil

Probe Radar

Tank Gauging

Description

ProbeRadar is a level gauging probe using radar technology based on TDR method (Time Domain Reflectometry).
The level is determined by sending high frequency pulses and analyzing their reflection on the product surface stored in the tank. Allows a great range of product with diferent dielectric constant.

Features and Benefits

- High resolution even in large tanks;
- Integrated data memory;
- Factory Pre-Calibrated;
- Simple integration with management control systems;
- Use the S2 System as GUI and control;
- Utiliza Barreiras Ativas com fonte;
- Use Active Barriers with internal source power;
- Operates with dielectric constant from 1.6 to 80.

Installation

Probe has a ¾" flange for tank anchorage.
Must be instaled in order to respect some distances from tank wall.

Installations in open fields, weather protection cove may be provided to protect against extreme conditions, like sun and rain.

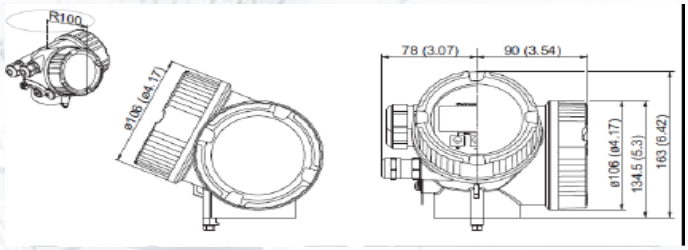
For correct dimension, please add 100 milimeters to the maximum height of product.

Cases using ropes the installation may consider a resonable distance from product entry, to avoid errors.

Parameters

Modelos	PR 50	PR51
Measurement	until 12 meters	until 45 meters
Temperature	-20oC to 80oC	-196oC to 45oC
Pressure	-1 to 6 bar	-1 to 400 bar
Resolution	+/- 2 mm	+/- 10 mm (>15 m)
Offset/Zero	+/- 4 mm	+/- 4 mm

Dimensões



Technical Specification

Weight	1,2 Kg
Installation	Upper side Tank
Power Requirements	Barreira Específica
Communication	HART (SmartBox)
Aprovals	ATEX,IEC, Ex, FM,CSA

Intrinsically Safe Parameters

Input
U_i = 17,5 V
I_i = 500 mA
P_i = 5,5 W
C_i = 5nF
L_i = 0,01 mH

Any changes could be made without notice due continuous technical product update.
Photos are only for illustration purposes

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