

Cargo Tank Measuring System



APPRICATIONS

Two different emitting frequencies are available for these applications, the compact, high frequency sensors are particularly suitable for applications for which high accuracy is reached. Low frequency C band sensors can penetrate foam and strong condensation and are thus particularly suitable for arduous process conditions. Unaffected by steam, gas composition, pressure and temperature changes the sensors detect the product surface of different products reliably.

FEATURES

- Small housing and small protection collection
- Low cost with high quality
- Two-wire technology loop powered
- Accurate and rugged design
- Adjustment choice

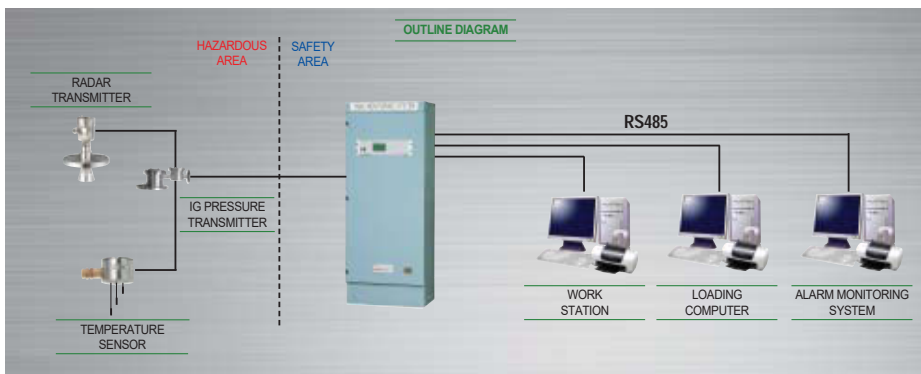
GENERAL

Extremely short microwave impulses are emitted by the antenna system to the measured product, reflected by the product surface and received again by the antenna system. They spread with high velocity and the time from emission to reception of the signals is proportional to the level in the vessel. A special time spreading procedure enables the reliable and precise measurement if the extremely short times.

The radar sensors work with low emitted power in the C and K-band frequency range. The proven ECHOFIX signal processing selects the correct level echo reliably from a number of false reflections. An adjustment with empty and full vessel is not necessary.

STANDARD MODEL AND SPECIFICATION

Model						
	PULS61	PULS 62	PULS 63	PULS 65	PULS 66	PULS 68
Application	aggressive liquids in small vessels under easy process conditions	storage and process vessels under arduous process conditions	aggressive liquids under arduous process conditions	aggressive liquids under easy process conditions	storage and process vessels under arduous process conditions	large solid vessels under arduous process conditions
Measuring range	up to 20m	up to 35m	up to 20m	up to 35m	up to 35m	up to 70m
Process temperature	-40..80°C	-40..200 °C	-40..150°C	-40..150°C	-40..500°C	-40..200°C
Process pressure	-1..3bar	-1..40bar	-1..16bar	-1..16bar	-1..160bar	-1..40bar
Accuracy	±5mm	±3mm	±3mm	±10mm	±10mm	±15mm



COMMUNICATION AND SAFETY UNIT



SPECIFICATIONS

- Power Supply : 24VDC
- Cargo Tank : Up to 24 (Radar)
- Ballast & Other Tank : Up to 31
- Communication : 1 X RS232 / 485 / 422 (Input)
3 X RS232 / 485 / 422 (Output)
- Relay output : 4 X NO / NC
- Protocol : Modbus RTU
- Operating temperature : 0-60°C

TEMP. & PRESS. TRANSMITTER



SPECIFICATION FOR I.G PRESSURE TRANSMITTER

MODEL : TLP100S
RANGE : 800-2000mbar
ACCURACY : ±0.2%
EEX ia IIB T4
FOR I.G PRESSURE



SPECIFICATION FOR TEMPERATURE TRANSMITTER

MODEL : TLP100S
ACCURAY : ±0.30 eg. °C
ACCURACY : -20-80°C
EEX ia IIB T4
PT 1000 RTD
MAX. 3 POINTS OF TEMP.

DECK MOUNTING METHOD FOR RADAR, TEMPERATURE AND PRESSURE SENSOR

