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Единый адрес для всех регионов: ctg@nt-rt.ru || www.canongate.nt-rt.ru

VesselCheck

General Application

VesselCheck is a highly versatile and accurate range of non-invasive liquid level measurement systems, comprising a signal processing unit and ultrasonic transceivers.



Working Principle

Ultrasonic sensors are clamped or bonded to the outside walls of the vessel; one on the bottom of the vessel, with the fully density compensated option, one on the side. Signals from the transducers are fed into the processor and either displayed locally, if that option is selected, or output to a separate system. The system calculates the height and volume of the liquid in the tank, from the time taken for the signal to be received from the liquid surface.

A range of systems are available, see the chart below for typical applications:

[ST1](#) [ST1AD](#) [ST2](#) [ST4](#) [VCHMI](#)

VesselCheck

Benefits

- Fast, reliable and accurate tank contents measurement
- Not affected by pressure
- Easy installation - no tank break-in, easy to trofit to existing tanks
- No down-time during installation
- No moving parts – little or no maintenance required

Features

- Ultrasound technology proven for over twenty years
- Fits tanks of most shapes and sizes above ground
- Truly non-invasive sensing technique
- Sensors bonded to outside of tank base and side wall

- Optional local display and/or output to higher level system for up to two tanks
- ATEX approved versions for hazardous areas available

Typical Application	Max Height	# Tanks	Hazardous Area Approval	Display	Variant
High accuracy: beer, spirits, acids, solvents, water, LPG spheres	20	2	Optional	Optional	ST2
Less accurate: LPG spheres, wine	20	4	Optional	Optional	ST4
Fuel, water, light oils, acids	3	1	No	No	ST1
LPG, small spirits tanks	3	1	Sensor Only	NO	ST1(A)
LPG, solvents, acids, fuels, sulphur Dioxide, Chlorine	3	1	Sensor & Processor	Yes	ST1AD
Refrigerant Gas	2	1	No	No	ST1(R)
Graphic Colour Operator Interface Terminal & Evaluation Unit for use with VesselCheck systems	N/A	Up to 32	No	-	VCHMI

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