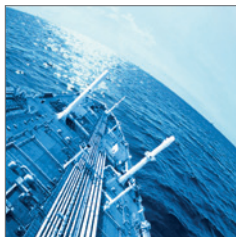




API Ultrasonic Tank Switch UTS™





Reliability at all times

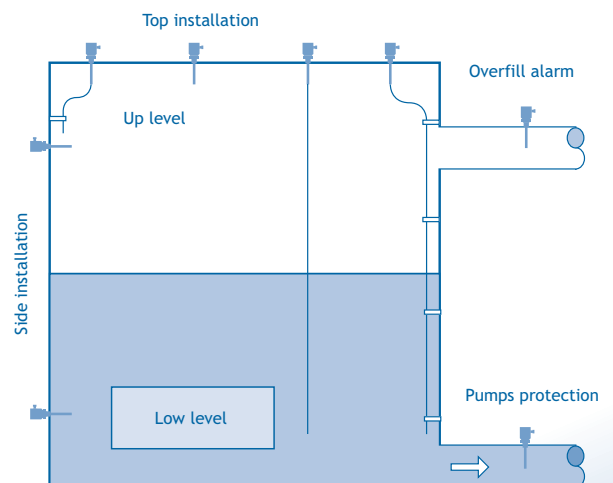
Designed for the harsh environment in tank installations onboard or ashore, the API UTS™ sensor provides the correct data for constant liquid level control including indication of the top and bottom levels as well as monitoring of pumps. Protection of pumps as well as prevention of spillage is obtained with a high level of efficiency. Due to modern technology the API UTS™ can operate and provide accurate measurements in any liquid, in extreme temperatures and in any shape of tank.

Fits all tank installations

Easy to design variants of the API UTS™ means easy adjustments of the product according to customer specifications. The API UTS™ is thus highly suitable both as stand-alone on the replacement market or as part of a complete API TSS/Cargo control system.

API UTS™ Features

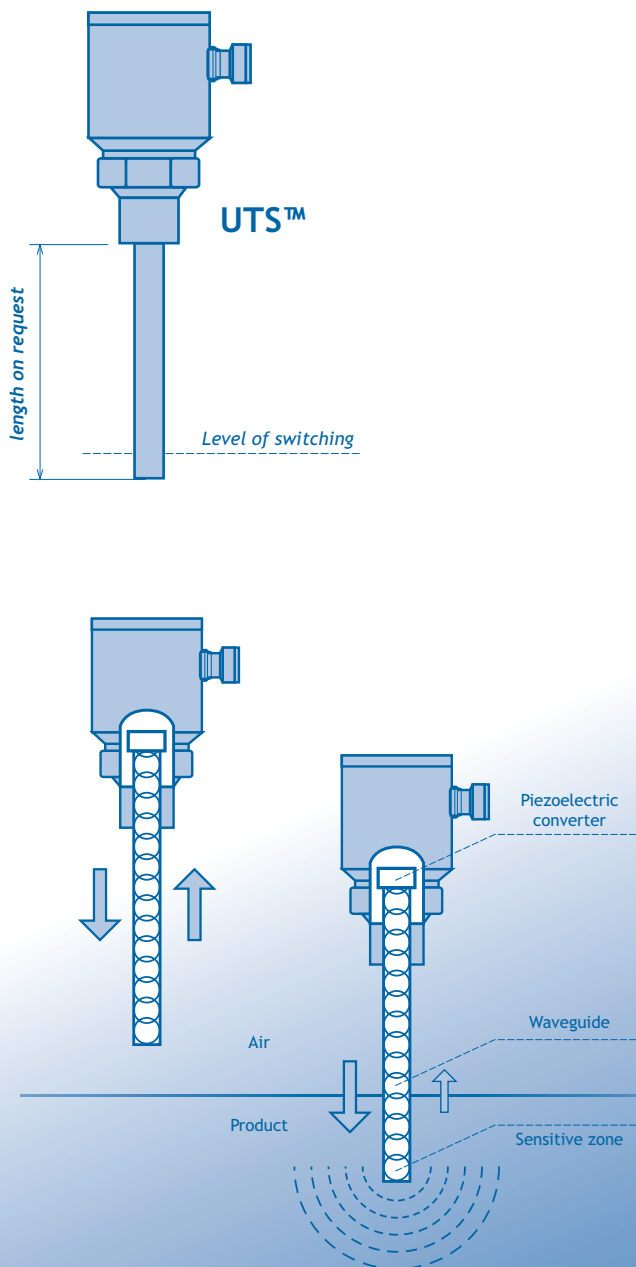
- Easy installation
- No moving parts
- No maintenance
- Automatic self test
- No calibration needed
- Intrinsically safe
- Adjustable alarm points
- Non-sensitive to foam
- Only steel rod inside the tank
- More than 300 modifications



State-of-the-art technology

Built on patented acoustic wave technology the API UTS™ has a level of accuracy and reliability never seen before. The technology ensures the accuracy of measurement regardless of shape of tank, type of liquid and temperature.

The API UTS™ is installed outside the tank with only the metal rod inside the tank. Acoustic waves in the metal rod created by piezo-electric transducer ensure the transmission of signals. When the liquid in the tank reaches the probe on the rod, the emission of sound waves is muffled. This change is picked up by the piezo-electric transducer and signals are transmitted to the corresponding alarms. Having only the metal rod inside the tank and no mechanical or moving parts means no maintenance is required.



Specifications:

Length: 25mm / 112mm / or any on request

Material: Stainless steel or hasteloy

Input: 18 to 30 V DC

Output: 6-13 mA current loop or relay

Intrinsically safe: EEx ia IIC T6

Operating temperatures: Ambient -55°C to +85°C / Product -200°C to +450°C

Pressure: up to 200 bar

UTS

Coding Sheet

UTS - □ □ - □ □ □ □ - □ □ □ - □ □ - □ □ □ - □ - □ - (□)

Housing type

Protection level IP67	6	7
Protection level IP68	6	8
Submersible, protection level IP68	M	8

Length of the switch

Minimum length 65 mm	0	0	6	5
Standard length 115 mm	0	1	1	5
Length on request (specify in mm)	X	X	X	X

Type and size of connection

Metric straight thread M27x1.5	M	2	7
Straight pipe thread 1 inch	0	1	G
Flange DN25 PN10-40	F	2	5
On request	X	X	X

Output signal

Current 14 mA ("dry")/7 mA ("wet")	C	1
Current 7 mA ("dry")/14 mA ("wet")	C	2
Namur (preliminary)	N	A
Dry contact: open ("dry")/closed ("wet")	R	1
Dry contact: open ("wet")/closed ("dry")	R	2

Cable input, cable length

PG 13	P	1	3
M24x1.5 internal	M	2	4
Special for IP68, specify cable length in meters	X	X	X

Temperature range of controlled liquid

Standard (-55°C...+100°C)	L
High-temperature 1 (-55°C...+200°C)	M
High-temperature 2 (-55°C...+325°C)	N
High-temperature 3 (-55°C...+450°C)	H
Low-temperature (-200°C...+100°C)	C

Explosion protection

Standard type	N
Ex type	I

Additional certification - if not needed, this section is left out

Russian Maritime Register of Shipping (RMRS)	M
Russian River Registry (RRR)	R
Det Norske Veritas (DNV)	D
Germanischer Lloyd (GL)	G
Lloyd's Register (LR)	L
Bureau Veritas (BV)	B
American Bureau of Shipping (ABS)	U
Registro Italiana Navale (RINA)	I
Other	X