Vibronic Point level detection Liquiphant FTL51

Point level switch with extension tube for liquids in all industries



Benefits:

- Use in safety systems requiring functional safety to SIL2/SIL3 in accordance with IEC 61508/IEC 61511-1
- International explosion protection certificates and overfill protection certificate (WHG)
- No calibration required, easy to start up
- No mechanically moving parts: no maintenance, no wear, long operating life.

Monitoring of fork for damage: guaranteed function

- Second line of defense to protect the environment
- Variety of standardized process connections for all applications
- Stainless steel (316L) and high-corrosion resistant sensor material (Alloy)

Specs at a glance

- Process temperature -50 °C...+150 °C (-58 °F...+302 °F)
- Process pressure / max. overpressure limit Vacuum...100 bar
- Min. density of medium 0.5g/cm³(0.4g/cm³ optional)

Field of application: Liquiphant FTL51 is a point level switch with extension tube for use in hazardous areas with all international certificates. Useable in all industries. FTL51 offers functional safety SIL2/SIL3. With the second line of defense highest degree of safety and availability of the device can be guaranteed. Reliable measurement values, not affected by: changing media properties, flow, turbulences, gas bubbles, foam, vibrations or build-up.



More information and current pricing: www.endress.com/FTL51

Features and specifications

Point Level / Liquids	Measuring principle Vibration Liquids
	Characteristic / Application
	Modular housing concept
	wide range of process connections
	Analogue and bus interfaces
	Extensive certificate range (e.g. Ex,WHG)
	pipe extension up to 3m (6m option)
	Specialities
	Foamdetection
	Detect a densitychange
	second line of defense
	Supply / Communication
	PROFIBUS PA
	19253V AC
	1055V DC-PNP
	19253V AC or 1055V DC
	8/16mA, 1136V DC
	NAMUR
	PFM
	Ambient temperature
	-50 ℃+70 ℃
	(-58 °F+158 °F)
	Process temperature
	-50 °C+150 °C
	(-58 °F+302 °F)

Process pressure / max. overpressure limit

Vacuum...100 bar

Point Level / Liquids

Min. density of medium

0.5g/cm³(0.4g/cm³ optional)

Main wetted parts

316L / Alloy

Process connection

Thread: G3/4A, G1A, R3/4", R1, NPT3/4, NPT1 Flange: DN25...DN100, ASME 1"...4", JIS 25A...100A

Process connection hygienic

Tri-Clamp ISO2852

Sensor length

Length 130mm (5.12") (Liquiphant II) 148mm...6000mm (5.83"...236")

Communication

PROFIBUS PA 19...253V AC 10...55V DC-PNP 19...253V AC bzw 10...55V DC 8/16mA, 11...36V DC NAMUR PFM

Certificates / Approvals

ATEX, FM, CSA C/US, IEC Ex, TIIS, INMETRO, NEPSI

Safety approvals

SIL2/SIL3

Point Level / Liquids

Design approvals

EN 10204-3.1 NACE MR0175, MR0103 ASME B31.3 AD2000

Marine approval

GL/ ABS/ DNV

Options

Heavy duty stainless steel housing mainly for the oil and gas industry

Components

FTL325P/FTL375P Interface PFM FTL325N/FTL375N Interface NAMUR

Successor

Liquiphant FTL51B

Density

Measuring principle Vibration Density

Characteristic / Application

Liquiphant M Density with Density Computer FML621 Temperature and pressure measurement Modular housing concept Wide range of process connections Pipe extension up to 3 m (6 m option)

Supply / Communication Transmitter power supply (MUS)

Ambient temperature -50...70°C -50...60°C for hazardous applications

Density

Process temperature

0...80°C (validity of accuracy data) -50...0°C / 80...150 °C (with reduced technical data)

Process pressure

0...25 bar >25..100 bar (with reduced technical data)

Wetted parts

316L/C4

Sensor length

115...3000 mm >3000...6000 mm (Option)

Output

Pulse

Certificates / Approvals

ATEX, FM, CSA C/US, IEC Ex, TIIS, INMETRO, NEPSI

Specialities

Commissioning with ReadWin2000

Components

Density Computer FML621

Other approvals and certificates

SIL2/SIL3

More information www.endress.com/FTL51

