

Liquiphant FTL62 - the coated sensor for aggressive media

A level switch for aggressive and pumpable liquids



More information and current pricing:

www.id.endress.com/FTL62

Benefits:

- Universal measuring principle for limit detection – proven vibronic technology
- Developed according IEC 61508 for highest safety – SIL2/3 applications (3rd party approved)
- Periodic proof testing is quickly and simple organized with guided wizards via the SmartBlue-App or via a test button or magnetic pin from outside. Via these ways, you can initiate the instrument for a fast and easy testing of the safety loop
- Heartbeat Technology allows safe, continuous diagnostics and a simple verification
- **Heartbeat Diagnostics:** Permanent diagnostics increase the safety of the plant. You connect your device via the SmartBlue-App and you easily have real time diagnostics at hand
- **Heartbeat Verification:** The device can be verified without process interruption. The verification report is generated automatically
- **Heartbeat Monitoring:** With the frequency tracking of the sensor data you have all information at hand for predictive maintenance and process optimization strategies

Specs at a glance

- **Process temperature** -50 °C...+150 °C (-58 °F...+302 °F)
- **Process pressure absolute / max. overpressure limit**
Vacuum...40 bar Vacuum...580 psi
- **Min. density of medium** 0.5 g/cm³ (0.4 g/cm³ optional)

Field of application: Liquiphant FTL62 has a strong focus on specific applications with aggressive liquids and simplicity with easy proof testing, reliability and safety (SIL) with compliance to IEC 61508, API 2350 and

WHG. The vibronic device is determined for a safe and active measuring technology in aggressive liquids and want a reliable and proven point level detection for tank overfill prevention and pump dry run protection. The FTL62 is easy to use, has a digital connection and gives a real-time data at hand.

Features and specifications

Point Level / Liquids

Measuring principle

Vibration Liquids

Characteristic / Application

Compact vibronic device with highly corrosion-resistant coating for aggressive media,
Optional extension tube up to 3 m (9.8ft),
Modular housing concept

Specialities

Heartbeat Technology,
Bluetooth® Operation and maintenance SmartBlue App,
LED Module,
RFID TAG for easy identification,
Second line of defense
Temperature spacer for high process temperature,
Plug and play functionalities

Supply / Communication

19...253V AC / 2-wire,
10...55V / DC-PNP 3-wire,
9...20V DC with relay DPDT,
19...253V AC or 19...55V DC with relay DPDT,
2-wire NAMUR,
2-wire PFM

Ambient temperature

-60 °C...+70 °C
(-76 °F...+158 °F)

Point Level / Liquids**Process temperature**

-50 °C...+150 °C
(-58 °F...+302 °F)

Process pressure absolute / max. overpressure limit

Vacuum...40 bar
Vacuum...580 psi

Min. density of medium

0.5 g/cm³
(0.4 g/cm³ optional)

Main wetted parts

ECTFE,
PFA (Edlon, RubyRed or conductive)
316L
Enamel

Process connection

Flanges:
DN25...DN100
ASME 1"...4"
JIS 50A

Sensor length

Up to 3 m (9.8 ft)

Communication

2-wire direct load
DC-PNP 3-wire
Relays
NAMUR
PFM
Bluetooth® wireless technology

Certificates / Approvals

ATEX, IEC Ex, NEPSI, EAC Ex

Point Level / Liquids

Safety approvals

Overfill protection WHG
SIL2/ SIL 3 according to IEC 61508

Design approvals

EN 10204-3.1
ASME B31.3 Process Piping
CRN

Marine approval

ABS/ LR/ BV/ DNV GL

Options

Ambient temperature down to -60 °C (-76 °F),
Heavy duty stainless steel housing

Components

FTL325P Interface PFM
FTL325N Interface NAMUR

Density

Measuring principle

Vibration Density

Product Headline

Coated Liquiphant with Density Computer FML621

Characteristic / Application

Compact vibronic device with highly corrosion-resistant coating for aggressive media,
Optional extension tube up to 3 m (9.8ft),
Modular housing concept

Ambient temperature

-60 °C...+70 °C
(-51 °F...+158 °F)

Density

Process temperature

-50 °C...+150 °C
(-58 °F...+302 °F)

Process pressure absolute

Vacuum...40 bar
Vacuum...580 psi

Sensor length

Up to 3 m (9.8ft)

Certificates / Approvals

ATEX, IEC Ex

Specialities

Heartbeat Technology,
Bluetooth® Operation and maintenance SmartBlue App,
LED Module,
RFID TAG for easy identification,
Second line of defense
Temperature spacer for high process temperature,
Plug and play functionalities

Components

Density Computer FML621

Measuring range

Density range: 0.3 to 2 g/cm³

Other approvals and certificates

Overfill protection WHG
SIL2/ SIL 3 according to IEC 61508

More information www.id.endress.com/FTL62