

# Liquiphant FTL62 - the coated sensor for aggressive media

## A level switch for aggressive and pumpable liquids



More information and current pricing:

[www.endress.com/FTL62](http://www.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/cm<sup>3</sup> (0.4 g/cm<sup>3</sup> 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 overflow 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)

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**Point Level / Liquids****Process temperature**

-50 °C...+150 °C  
(-58 °F...+302 °F)

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**Process pressure absolute / max. overpressure limit**

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

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**Min. density of medium**

0.5 g/cm<sup>3</sup>  
(0.4 g/cm<sup>3</sup> optional)

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**Main wetted parts**

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

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**Process connection**

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

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**Sensor length**

Up to 3 m (9.8 ft)

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**Communication**

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

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**Certificates / Approvals**

ATEX, IEC Ex, NEPSI, EAC Ex

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**Point Level / Liquids****Safety approvals**

Overfill protection WHG  
SIL2/ SIL 3 according to IEC 61508

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**Design approvals**

EN 10204-3.1  
ASME B31.3 Process Piping  
CRN

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**Marine approval**

ABS/ LR/ BV/ DNV GL

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**Options**

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

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**Components**

FTL325P Interface PFM  
FTL325N Interface NAMUR

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**Density****Measuring principle**

Vibration Density

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**Product Headline**

Coated Liquiphant with Density Computer FML621

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**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

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**Ambient temperature**

-60 °C...+70 °C  
(-51 °F...+158 °F)

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## 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/cm<sup>3</sup>

**Other approvals and certificates**

Overfill protection WHG  
SIL2/ SIL 3 according to IEC 61508

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