

# Liquiphant FTL62 - the specialist for aggressive media

## A level switch for aggressive and pumpable liquids



More information and current pricing:

[www.ie.endress.com/FTL62](http://www.ie.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 digital communication you can initiate the device for a fast and easy testing of the safety loop.
- **Heartbeat Technology** allows safe, continuous diagnostics and a simple verification, without process interruption
- Centralized asset management with easy online access to all device information thanks to digital communication
- Second line of defense to protect the environment

### Specs at a glance

- **Process temperature** -50 °C...+150 °C (-58 °F...+302 °F)
- **Process pressure / 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 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.

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## Features and specifications

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### Point Level / Liquids

**Measuring principle**

Vibration Liquids

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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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**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

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**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,  
4-20mA HART

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**Ambient temperature**

-60 °C...+70 °C  
(-76 °F...+158 °F)

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**Process temperature**

-50 °C...+150 °C  
(-58 °F...+302 °F)

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**Point Level / Liquids****Process pressure / 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

HART

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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**Safety approvals**

Overfill protection WHG

SIL2/ SIL 3 according to IEC 61508

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

-50 °C...+150 °C  
(-58 °F...+302 °F)

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## Density

### Process pressure

Vacuum...40 bar

Vacuum...580 psi

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### Sensor length

Up to 3 m (9.8ft)

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### Certificates / Approvals

ATEX, IEC Ex

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### Specialities

Heartbeat Technology,  
Bluetooth® Operation and maintenance SmartBlue App,  
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### Components

Density Computer FML621

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### Measuring range

Density range: 0.3 to 2 g/cm<sup>3</sup>

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### Other approvals and certificates

Overfill protection WHG

SIL2/ SIL 3 according to IEC 61508

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