

# The Liquiphant FTL64 ensures long term reliable detection

## A level switch for hot and pumpable liquids



More information and current pricing:

[www.fi.endress.com/FTL64](http://www.fi.endress.com/FTL64)

### 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** -60 °C...+280 °C (-76 °F...+536 °F)
- **Process pressure absolute / max. overpressure limit**  
Vacuum...100 bar Vacuum...1450 psi
- **Min. density of medium** 0.5 g/cm<sup>3</sup> (0.4 g/cm<sup>3</sup> optional)

**Field of application:** Liquiphant FTL64 has a strong focus on high temperature applications 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 applications with high temperatures and want a reliable and proven

point level detection for tank overflow prevention and pump dry run protection. The FTL64 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 for high pressure and high temperature applications,  
Optional extension tube up to 6 m (19.7 ft),  
Modular housing concept,  
Wide range of certificates

#### 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**

-60 °C...+280 °C  
(-76 °F...+536 °F)

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

Vacuum...100 bar  
Vacuum...1450 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**

316L  
Alloy

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**Process connection**

Threads:  
3/4", 1"  
Flanges:  
DN25...DN100  
ASME 1"...4"  
JIS 50A

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**Sensor length**

up to 6 m (19.7 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  
NACE MR0175, MR0103  
ASME B31.3 Process Piping  
AD2000  
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,  
Coating PFA (conductive)

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### Components

FTL325P Interface PFM  
FTL325N Interface NAMUR

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