

# Liquiphant FTL64 - reliable detection at high temperatures

## A level switch for hot and pumpable liquids



### 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

More information and current pricing:

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

### 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 overfill prevention and pump dry run protection. The FTL64 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 for high pressure and high temperature applications,

Optional extension tube up to 6 m (19.7 ft),

Modular housing concept,

Wide range of certificates

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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

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**Ambient temperature**

-60 °C...+70 °C

(-76 °F...+158 °F)

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**Process temperature**

-60 °C...+280 °C

(-76 °F...+536 °F)

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

Overfill protection WHG

SIL2/ SIL 3 according to IEC 61508

## Point Level / Liquids

### 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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More information [www.si.endress.com/FTL64](http://www.si.endress.com/FTL64)