

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 to 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.endress.com/FTL64

Specs at a glance

- **Process temperature** -60 °C...+280 °C (-76 °F...+536 °F)
- **Process pressure / max. overpressure limit** Vacuum...100 bar
Vacuum...1450 psi
- **Min. density of medium** 0.5 g/cm³ (0.4 g/cm³ 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 protection 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,

4-20mA HART

Ambient temperature

-60 °C...+70 °C

(-76 °F...+158 °F)

Process temperature

-60 °C...+280 °C

(-76 °F...+536 °F)

Point Level / Liquids**Process pressure / max. overpressure limit**

Vacuum...100 bar

Vacuum...1450 psi

Min. density of medium0.5 g/cm³(0.4 g/cm³ optional)

Main wetted parts

316L

Alloy

Process connection

Threads:

3/4", 1"

Flanges:

DN25...DN100

ASME 1"...4"

JIS 50A

Sensor length

up to 6 m (19.7 ft)

Communication

2-wire direct load

HART

DC-PNP 3-wire

Relays

NAMUR

PFM

Bluetooth® wireless technology

Certificates / Approvals

ATEX, IEC Ex, NEPSI, EAC Ex, KC, JPN Ex, INMETRO, UK Ex

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

Marine approval

ABS/ LR/ BV/ DNV

Options

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

Components

FTL325P Interface PFM
FTL325N Interface NAMUR

More information www.endress.com/FTL64