

# Vibronic

## Point level detection

### Nivotester FailSafe FTL825

## Point level switching unit for Liquiphant FailSafe FTL80, FTL81 and FTL85



#### Benefits:

- Use in safety systems requiring functional safety to SIL3 in accordance with IEC 61508 Ed.2.0 / IEC 61511-1 / ISA 84-1
- Proof test: proof testing interval up to 12 years, Slave devices tested at the press of a button
- For safety-critical systems up to SIL3 in the chemicals, petrochemicals and oil & gas industries
- For applications where redundant or diverse systems are either not recommended or not possible, the longest possible test cycles are desirable, or proof tests are either not possible or only with great difficulty and expense
- Integrated locking function (self-holding)
- 4 switching outputs (can be analyzed separately): 2 as level safety contacts based on the quiescent current principle for a redundant output signal, 1 x signaling contact (e.g. lamp), 1 x fault-signaling contact as changeover contact

More information and current pricing:

[www.ch.endress.com/FTL825](http://www.ch.endress.com/FTL825)

**Field of application:** The Nivotester FTL825 supplies the Liquiphant FailSafe FTL8x point level switch with direct voltage via a two-wire cable. At the same time, it analyzes the current values (4-20mA discrete) of the Liquiphant and returns a switching signal. The signal inputs of the Nivotester FTL825 are galvanically isolated from the mains and the output and can be ordered Safety-critical systems up to SIL3. For industries where redundant or diverse systems are either not recommended or not possible.

#### Features and specifications

## Point Level / Liquids

### Measuring principle

Vibration Liquids

### Characteristic / Application

FailSafe level transmitter point level.  
Top hat rail mounting  
Connection to FTL80/81/85  
Permanent self-monitoring, LIVE-Signal.

### Specialities

SIL 3 according to IEC61508.

### Supply / Communication

85 - 253 VAC/DC  
20 - 30 VAC/20-60VDC

### Ambient temperature

-20 to +60 °C  
(-4 to +140 °F)

### Communication

2x SPST safety contact point level  
1x SPST signal contact  
1X SPDT fault contact

### Certificates / Approvals

ATEX, FM, CSA, CSA C/US, IEC Ex,  
NEPSI

### Safety approvals

Overfill protection WHG  
Leakage Detection

### Marine approval

GL/ ABS/ LR/ BV/ DNV

More information [www.ch.endress.com/FTL825](http://www.ch.endress.com/FTL825)