



## LFH

Pressure transmitter in stainless steel housing for continuous hydrostatic level measurement

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Medium</b>	Fluids
<b>Pressure type</b>	Gauge pressure
<b>Pressure unit</b>	bar / mH2O (depends on variant)
<b>Accuracy</b>	$\leq \pm 0.5 \%$ / $\leq \pm 0.25 \%$ (depends on variant)
<b>Connection type</b>	PUR flying leads, 30 m PUR flying leads, 40 m PUR flying leads, 5 m PUR flying leads, 15 m PUR flying leads, 100 m PUR flying leads, 50 m PUR flying leads, 80 m PUR flying leads, 10 m PUR flying leads, 20 m PUR flying leads, 25 m PUR flying leads, 1.5 m PUR flying leads, 3 m FEP flying leads, 15 m FEP flying leads, 100 m FEP flying leads, 50 m PUR flying leads, 60 m FEP flying leads, 10 m FEP flying leads, 25 m FEP flying leads, 40 m FEP flying leads, 3 m FEP flying leads, 20 m FEP flying leads, 30 m FEP flying leads, 80 m FEP flying leads, 5 m
<b>Enclosure rating</b>	IP68
<b>Process temperature</b>	-10 °C ... +85 °C (depends on variant)
<b>Communication interface</b>	-
<b>Output signal</b>	4 mA ... 20 mA, 2-wire 0 V ... 10 V, 3-wire (depends on variant)
<b>Supply voltage</b>	10 V DC ... 30 V DC (depends on variant)
<b>Additional function</b>	Overvoltage protection Temperature measurement (depends on variant)

### Product description

The LFH level probe is a rugged pressure transmitter for continuous level measurement. The liquid column above the probe creates a hydrostatic pressure which is a direct indicator for the liquid level. Through its permanently connecting cable, the LFH is submerged into the liquid. The precise measurement technology is integrated in a rugged stainless steel housing. To meet diverse requirements, the LFH level probe is available in two variants, standard and enhanced. For the enhanced variant there are a number of options available that extend the range of applications significantly. They include a maximum cable length of 250 m (standard design: 100 m), integrated temperature measurement, surge protection, and a connecting cable with highly resistant FEP sheathing (up to 100 m).

### At a glance

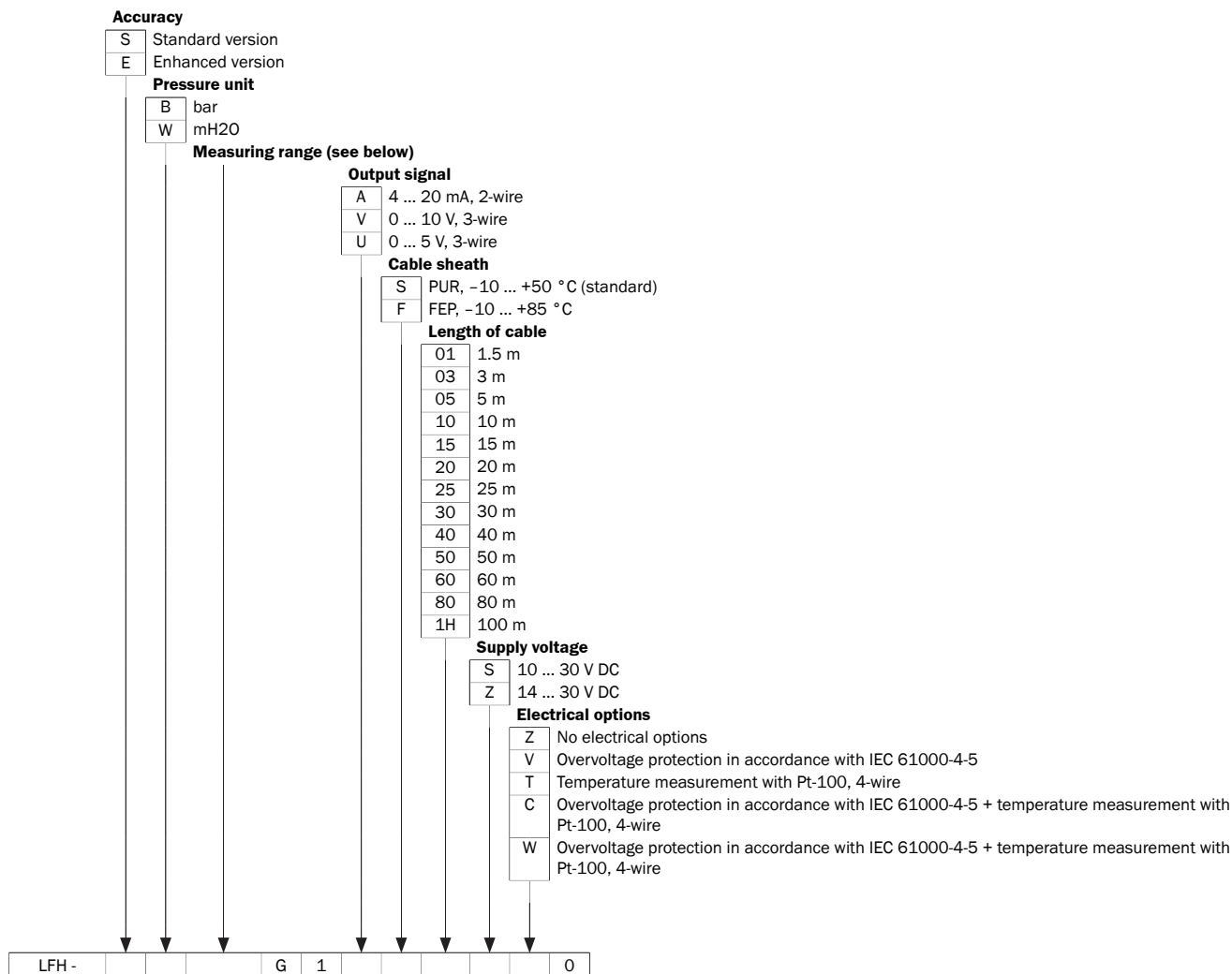
- Immersion depth up to 100 m
- Available with various cable lengths
- Measuring ranges from 0.1 bar ... 1 bar up to 0 bar ... 25 bar
- Stainless steel membrane
- Hermetically sealed stainless-steel housing with PA protective cap
- Cable made from PUR, FEP cable is available as an option for aggressive media
- Optional temperature measurement with integrated Pt100 element
- Optional surge protection

### Your benefits

- Enables level measurement under difficult conditions where other measurement technologies fail
- Rugged and reliable through robust mechanical design and high-grade materials
- For cleaning purposes the probe can easily be taken out of the liquid
- No drillings required in the wall of the vessel

### Type code

Other models and accessories → [www.sick.com/LFH](http://www.sick.com/LFH)



Not all variants of the type code can be combined!

### Measuring range

Bar / gauge pressure	
X10	0 ... 0.1 bar
X16	0 ... 0.16 bar
X25	0 ... 0.25 bar
X40	0 ... 0.4 bar
X60	0 ... 0.6 bar
1X0	0 ... 1 bar
1X6	0 ... 1.6 bar
2X5	0 ... 2.5 bar

MH <sub>2</sub> O / gauge pressure	
1X0	0 ... 1 mH <sub>2</sub> O
1X6	0 ... 1.6 mH <sub>2</sub> O
2X5	0 ... 2.5 mH <sub>2</sub> O
4X0	0 ... 4 mH <sub>2</sub> O
6X0	0 ... 6 mH <sub>2</sub> O
010	0 ... 10 mH <sub>2</sub> O
016	0 ... 16 mH <sub>2</sub> O
025	0 ... 25 mH <sub>2</sub> O

Bar / gauge pressure	
4X0	0 ... 4 bar
6X0	0 ... 6 bar
010	0 ... 10 bar
016	0 ... 16 bar
025	0 ... 25 bar

mH <sub>2</sub> O / gauge pressure	
040	0 ... 40 mH <sub>2</sub> O
060	0 ... 60 mH <sub>2</sub> O
100	0 ... 100 mH <sub>2</sub> O
160	0 ... 160 mH <sub>2</sub> O
250	0 ... 250 mH <sub>2</sub> O

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)