



## Fill level measurement



Type:  
**Hydrocont® LK**

Level probe as a probe or suspension suitable for outdoor installation; Low Cost Version

### Description

The device Hydrocont® LK with integrated analogue evaluation electronic is a compact hydrostatic transmitter for continuous measuring of filling levels in liquids at hydrostatic pressures from 0 up to 1 bar within pressure less container, at process temperatures from - 40°C to +100°C.

The use of a capacitive measuring sensor with ceramic membrane, allows the use in nearly all fields of industry.

Application fields are e.g. the measurement of levels in reservoirs, clarification basins, deep wells etc., but also the filling level measurement in closed containers at liquids, like e.g. water, waste water, solvents, oil, sludge, fat, cleaning liquids, etc.



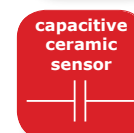
### Application

- Continuous fill level measurement in reservoirs, clarification basins, deep wells and boreholes
- Recording screw-in pressure with flood-proof cable outlet

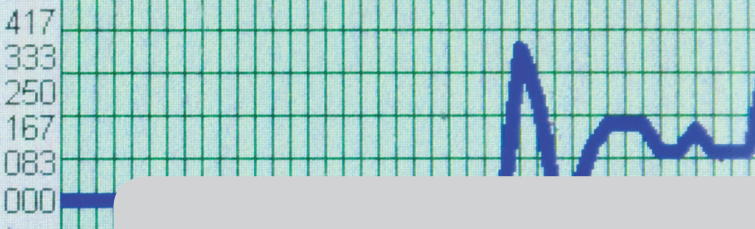
### Your benefits

- *Price-optimized* model
- *Easy commissioning*
- High-precision dry capacitive ceramic measuring cell

### Specials

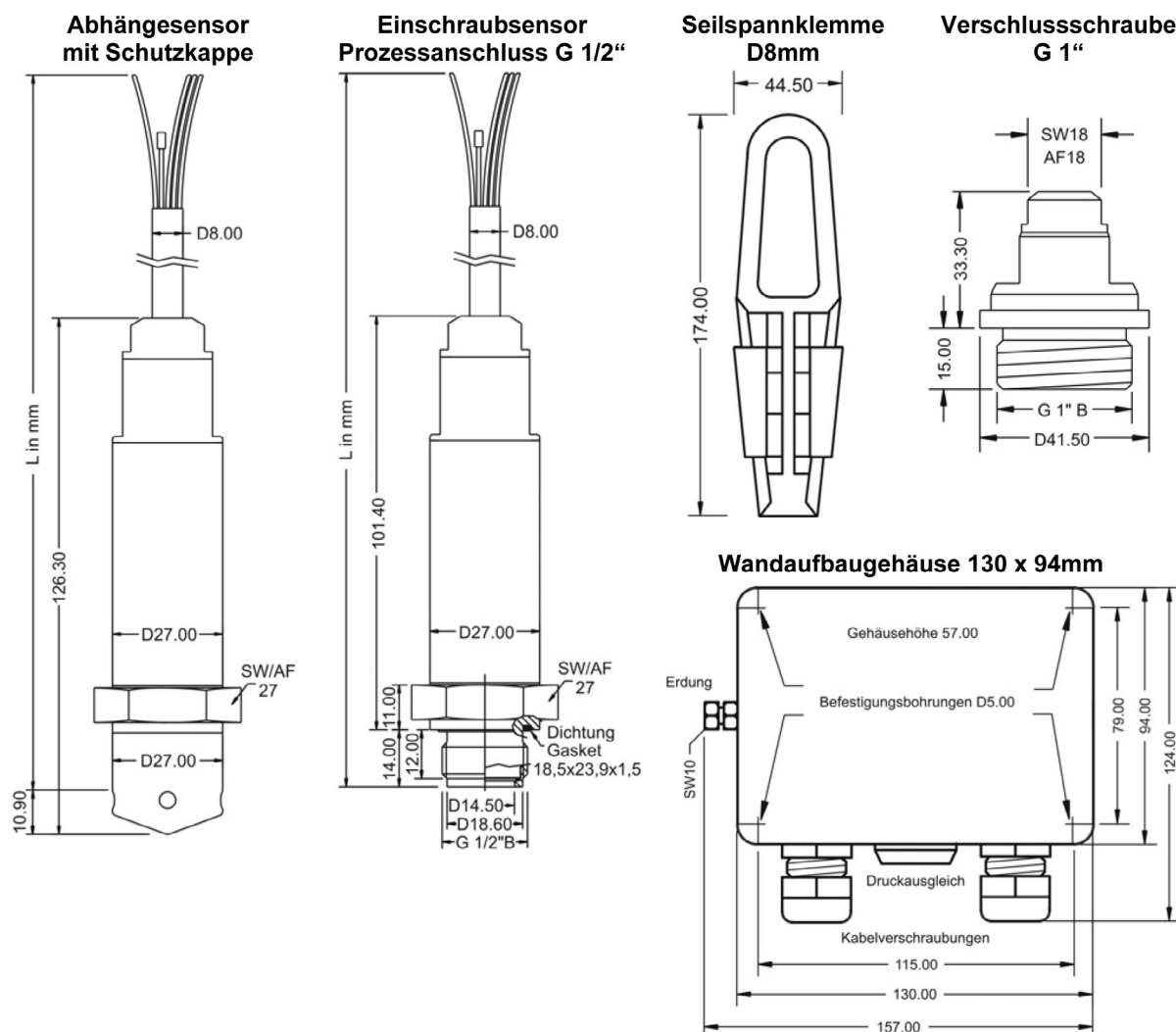


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## Technical data

Technical data		
Output:	2-wire 4...20 mA 3-wire 0...10 V	10..30 V DC 14..30 V DC
Supply current:	2-wire 4...20 mA    ≤ 30 mA 3-wire 0...10 V     ≤ 6 mA	
Measuring accuracy		
Deviation in characteristics:	≤ ± 0,1% / 0,25% FS	
Temperature deviation:	≤ ± 0,15% FS / 10 K	
Long term drift:	≤ ± 0,15% FS / year    not cumulative	
Influence of supply voltage:	≤ 0,02% / 10 V of the nominal range	
Resolution:	infinite, because analog measurement electronics	
Material		
Membrane:	AL <sub>2</sub> O <sub>3</sub> 96% (medium contact)	
Process connection:	Steel 1.4404 (AISI 316L) / 1.4571 (AISI 316Ti)    (medium contact)	
Housing rope:	CrNi-Steel	
gasketen (medium contact):	FPM – Fluoroelastomer (Viton®) EPDM – ethylene-propylene-diene monomer NBR – Nitrile Butadiene Rubber	
Connection cable:	Coated cable PE Polyethylen	
Wall-mounted casing:	PC / PS	
Extension cable:	PE / PUR	
Environmental conditions		
Ambient temperature:	-20°C...+70°C	
Process temperature:	- 20°C...+70°C outdoor installation via process connection                    - 40°C...+100°	
Process pressure ranges:	0...100 mbar up to 0...1 bar	
Protection:	IP68	DIN EN 60529



# Order code



0

LK

0

Y

1

3

V

C

01

02

03

04

05

YY

A

B

0

R

0

2

A

**Type**  
Standard

**Measuring membrane** (medium contact)  
Ceramic capacitive membrane ceramic AL2O3 96%

**Process connection**  
G 1/2" B DIN EN ISO228-1 slopes probe with flush measuring cell and cap, suitable by G-connection for outdoor installation  
Others on request

**Gaskets** (medium contact)  
1 FPM fluorelastomere (Viton®)  
3 EPDM etylene-propylene-dienmonomere for food applications

**Material process connection** (medium contact)  
Steel 1.4404 (AISI 316L) / 1.4571 (AISI 316Ti)

**Material Connection housing**  
CrNi-steel

**Measuring range**  
01 0...0,1 bar  
02 0...0,2 bar  
03 0...0,4 bar  
04 0...0,6 bar  
05 0...1 bar  
YY Special measuring range separate spec. necessary

**Electronic – output**  
A 2-wire-technology signal 4...20 mA  
B 3-wire-technology signal 0...10 V

**Process temperature**  
Standard -40°C to 100°C outside installation,  
-20°C to +70°C as slope version

**Pressure type**  
R Relative pressure

**Accuracy measuring system \*)**:  
0 0,1 %, with Linearization protocol  
2 0,25 %

**Probe prolongation**  
(price per 100mm)  
Carrying cable PE

**Probe length L**  
incl. process connection measure in mm

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Hydrocont®

0 LK V C 0 R 0 2 A mm

## Equipment

- Sealing screw VS-1000 G1"
- Sealing screw VSM-1500 G1 1/2"
- Straining clamp verzinkt
- Wall-mounted casing with laser marking
- Wall-mounted casing without laser marking