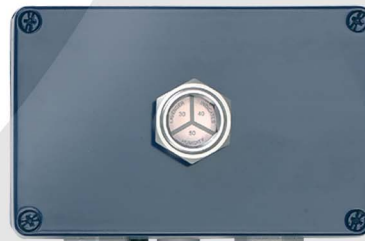


Immersion probe LMK 358 Hydro

Edelstahl- Tauchsonde
 Kapazitive Messzelle
 Messkopf 40 mm Ø
 Füllstandsmessung
 0,6mWs bis 200 mWs
 Genauigkeit 0,1% FS
 Kommunikation Hart



The immersion probe LMK 358 Hydro was developed for the continuous fill level measurement in flowing water and wells.

Based on a mechanically robust capacitive ceramic measuring cell built to withstand heavy overload, the probe is particularly suitable for long-term stable measurement. Measurement principle: The membrane of the capacitive ceramic measuring cell is pressed against the body by the pressure of the medium. The position of the membrane changes the capacitance of the measuring cell. This change is converted by a processor to the fill level above the probe. To simplify storage and maintenance, the actual probe is connected to the cable section by a plug-in connector.

When necessary, replacement of the probe is straightforward and requires no electrical or mechanical installation. The cable section can also be supplied with a stainless steel protective tube. The microprocessor electronics correct temperature-dependent deviations from the characteristic curve and linearity errors of the measuring cell. An additional signal complying with the HART specification is superimposed on the analog output signal. The specific parameters for the measurement (offset, range and attenuation) can be set individually in a PC user interface.



Immersion probe LMK 358 Hydro

Technical specifications

Measuring ranges	0-6 mWs; 0-1 mWs; 0-2.5 mWs; up to 0-6 mWs; 0-10 mWs; 0-20 mWs; 0-40 mWs; 0-60 mWs; 0-100 mWs; 0-200 mWs
Interface	4-20 mA, Hart
Measurement accuracy	0.1%FS
Electrical protection measures	Short-circuit proof, reverse polarity protection
Insulation resistance	>100 M Ω
Overtoltage protection	Integrated Us = 2 kV unsym. / 1 kV sym.
Option Ex prot.	II 1G EEx ia IIC T4
Housing	Stainless steel 1.4571
Sep. membrane	Ceramic Al ₂ O ₃ 96%
Seals	Viton
Cable jacket	PVC, PUR, FEP sheath
Power supply	10-36 V
Temperature range	-10 to +70 °C
Accessories:	
Pressure compensation chamber	Dampness inspection window, drying agent, overvoltage protection
Cable anchoring clip	