

LEVEL

Hydrostatic, Pressure

T3

NivuBar Plus II

Submersible probe



- Ceramic diaphragm
- Capacitive measuring cell
- 2-wire technology (output 4-20 mA)
- Integrated overload protection
- Extensive, almost front flush diaphragm
- Ex approval for zone 0 as standard



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Submersible probe with integrated 4-20 mA transmitter for hydrostatic level measurement in water and waste water. With capacitive ceramic measuring cell without oil filling.

This hydrostatic level probe is developed to meet the high demands of industrial and environmental protection. The stainless steel probe body is locked by a capacitive ceramic measuring cell at the bottom and is held by the self-supporting cable on the top. The probe can be suspended e.g. on manhole walls by using a straining clamp.

The non-corrosive enclosure with ingress protection IP68 (NEMA 6X) permits universal use for reliable determination of levels in containers, basins, pump stations and tanks.

The extensive diaphragm has proven as very reliable, particularly in the sewage environment.

The Ex-approval II 1G Ex ia IIC/IIB T4 is standard and the NivuBar Plus II therefore can be installed in all explosive surroundings.

Utilising the widely used 2-wire technology, the installation costs are very low.

Specifications

Submersible probe	
Measurement range	1, 2, 4, 6, and 10 m H ₂ O special measurement ranges on request
Power supply	12 to 36 V DC, Ex: 14 to 28 V DC
Output signal	4 - 20 mA, 2-wire technology
Accuracy according to IEC 60770	0.25 % / 0.35 % FSO
Long-term stability	± 0.1 % FSO / year
Electric connection	free cable end
Load	600 Ohm / 24 V 1000 Ohm / 32 V
Integrated overvoltage protection	-120 to 150 V DC (1 sec at 25 °C)
Operating temperature	-10 °C to +70 °C
Storing temperature	-25 °C to +70 °C
Material	<ul style="list-style-type: none"> • diaphragm: ceramic (Al₂O₃) • enclosure: stainless steel 1.4571 • sealing: Viton® • cable: ø9 mm Polyurethane
Cable length	10, 20, 30, 50, 100 m special length on request
Protection	IP68
Measuring principle	capacitive
Ex-approval	II 1G Ex ia IIC/IIB T4 IBEx U05 ATEX 1193X
Accessories	
Terminal clamp	AKL 1, stainless steel 1.4571
Locking sleeve (carrier)	G1.5", stainless steel, as holder for NivuBar Plus II probe
Connector box	KLB2 with overvoltage protection and pressure compensation; material: Plastic
Junction box	BPG Ex with pressure compensation
Surge arrestor	Type 9001/51-280-091-141 ATEX for connection to SPS in zone 1

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You can find more information in the instruction manual or on www.nivus.com

