- **Ceramic diaphragm**
- **Capacitive measuring cell**
- **2-wire technology (output 4-20 mA)**
- **Integrated overload protection**
- **High accuracy**
- **High electric operational reliability**
- **Ex approval for zone 0 (optional)**

HydroBar G II

Screw-in probe with integrated 4-20 mA transmitter for hydrostatic level measurement in clear fluids, sludges and gases. The probes are particularly suitable for level investigation in tanks, containers and pipe lines.

Due to the large front-flush diaphragm and the G1½“ connection the probe has particularly proven in the wastewater area. The unit is designed for flush installation, allowing to use it even in viscous liquids. There is no possibility of failures caused by sediments at the membrane therefore.

The HydroBar G II can be used in aggressive media such as acids and caustic solutions as well.
Measuring in these extreme operating conditions is possible by using a capacitive ceramic gauge head made of 96%- Al_2O_3.
The probe is also available with Ex-approval II 1G Ex ia IIC/IIB T4.

The HydroBar G II has a fixed measurement range and utilises proven 2-wire technology.

Optionally available is a 4-character LED display integrated in the enclosure lid.

Specifications are subject to change.
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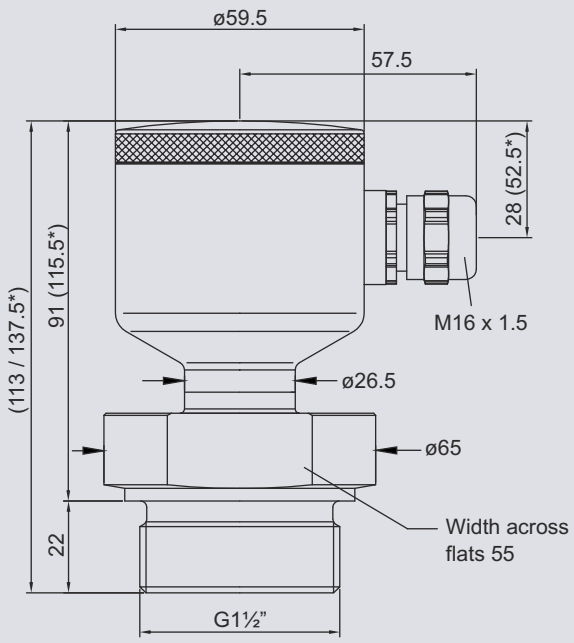
Specifications

Screw-in probe

Measurement range / overpressure	1 m H_2O / 2 bar I 2 m H_2O / 2 bar 4 m H_2O / 4 bar I 6 m H_2O / 4 bar 10 m H_2O / 7 bar I 20 m H_2O / 10 bar 1 bar / 7 bar I 2 bar / 10 bar 4 bar / 25 bar I 6 bar / 25 bar 10 bar / 40 bar I 20 bar / 60 bar Special measurement ranges on request
Power supply	12 to 36 V DC, Ex: 12 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	M16 x 1.5 (for cable 4 to 11 mm)
Process connection	G1½" DIN ISO 228
Load	600 Ohm / 24 V 1000 Ohm / 32 V
Integrated overvoltage protection	-120 to 150 V DC (1 sec at 25 °C)
Operating temperature	-25 °C to +85 °C (electronics)
Temperature of measured substance	-25 °C to +125 °C
Storing temperature	-40 °C to +100 °C
Material	• field enclosure stainless steel 1.4305
Medium-contacting	• diaphragm: ceramic Al_2O_3 • pressure conn. stainless steel 1.4571 • sealing: Viton®
Protection	IP67
Measuring principle	capacitive
Ex-approval (optional)	II 1G EEx ia IIC/IIB T4 IBEx U05 ATEX 1193X
Mechanical strength	• vibration: 10 g RMS (20...2000 Hz) • shock: 100 g/11 ms
Accessories	
Surge arrestor	Type 9001/51-280-091-141 ATEX for connection to PLC in zone 1

Viton® is a registered trademark of DuPont Dow Elastomers

Dimensions

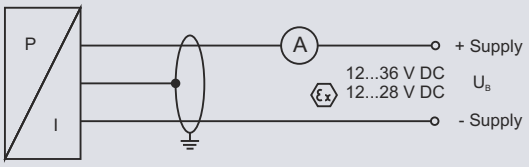


* Dimensions of probe with LED display.

Dimensions in **mm**

Dimensions

2-wire: 4...20mA



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

Specifications are subject to change.
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