



HydroBar G II

Pressure probe with integrated 4/20 mA transmitter and 1½" Gas threaded connection

ELECTRONICS

ACOUSTIC

WEIGHT

OVERLOADING
SAFETY SYSTEMS

VALVES

TEMPERATURE

DETECT
A FIRE®

FLOW

DENSITY

INTERFACE

PRESSURE

LEVEL



- Ceramic diaphragm
- Capacitive measuring cell
- 2-wire technology (output 4-20 mA @ 24 Vdc)
- Integrated overload protection
- High accuracy
- High electric operational reliability
- Ex approval for zone 0 (optional)

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% - Al₂O₃.

The probe is also available with Exapproval II 1G Ex ia IIC/IIB T4.

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

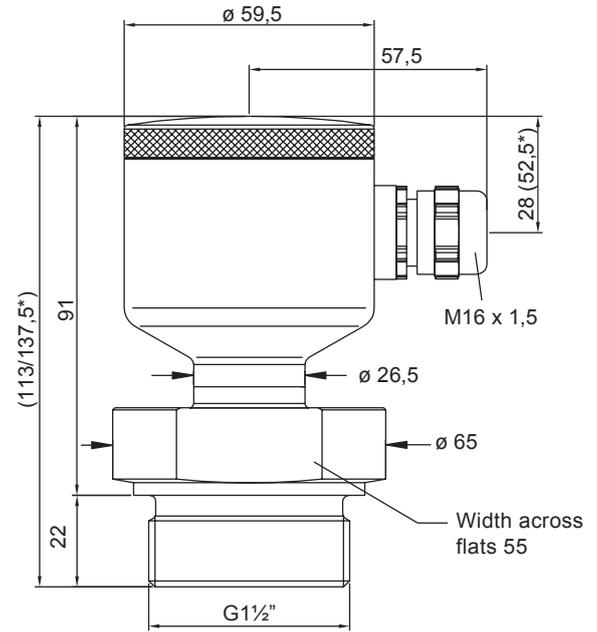
Optionally available is a 4-character LED display integrated in the enclosure lid.

Technical Specifications

SCREW-IN PROBE

Measurement range/overpressure	1 m H2O / 2 bar	2 m H2O / 2 bar
	4 m H2O / 4 bar	6 m H2O / 4 bar
Special measurement ranges on request	10 m H2O / 7 bar	20 m H2O / 10 bar
	1 bar / 7 bar	2 bar / 10 bar
	4 bar / 25 bar	6 bar / 25 bar
	10 bar / 40 bar	20 bar / 60 bar
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 (per cavo da 4 a 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 O 2 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	

Dimensions



*Dimensions of probe with LED display.

Dimensions in mm

Connection

2-wire: 4...20mA

