

UniBar E

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

The unit comes with a G1/2" connection (DIN 3852) as standard process connection. The electric connection is made by screw terminals in stainless steel enclosure or plugs according to DIN ISO 4400. Various standard measurement ranges are available. The probes can be calibrated to the customer's individual requirements on request.

UniBar E probes are designed for rough industrial use. The UniBar E has proven even in aggressive media such as acids, lye and bleach.

The use under such extreme conditions is possible by using piezoresistive measurement cells made of stainless steel (1.4404).

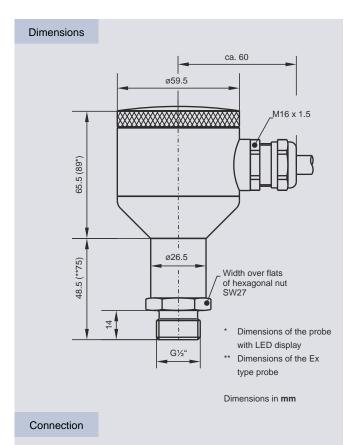
The probe is also available with Exapproval II 1G Ex ia IIC/IIB T4 and therefore can be installed in all explosive surroundings.

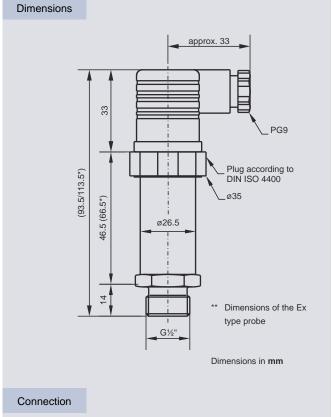
The UniBar E has a fixed measurement range. The probe utilises 2-wire techno-

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



Specifications



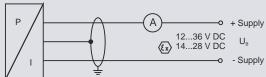


DIN 4400 PIN 1 = Supply +

PIN2 = Supply -

GND = PE ⊕

PIN3 = not connected



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Measurement range/ overpressure	1 mWC / 1 bar 4 mWC / 1 bar 10 mWC / 3 bar	I 2 mWC / 1 bar I 6 mWC / 3 bar I 20 mWC / 6 bar		
	10 bar / 20 bar	I 6 bar / 20 bar I 20 bar / 90 bar		
Power supply	Special measurement ranges on request. 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 % FSC)		
Long-term stability	± 0.1 % FSO / year			
Electric connection	field enclosure M16 x 1.5 / plug PG 9			
Process connection	G½" DIN 3852 open connection with			
	12 mm diameter			
Load	600 Ohm / 24 V or 1	000 Ohm / 32 V		
Integrated				
overvoltage protection	-120 to 150 V DC (1	sec at 25 °C)		
Operating temperature	-25 °C to +85 °C (ele	ectronics)		
Temperature of				
measured substance	-25 °C to +125 °C			

Storing temperature	-40 °C to +100 °C
Material	 field enclosure stainless steel 1.4404 (inox 316L) with cable gland made of nickel-plated brass
	 plug "enclosure" stainless steel 1.4404 (inox 316L)
Medium-contacting	 diaphragm: stainless steel 1.4435 (inox 316Ti)
	 pressure conn. stainless steel 1.4571 sealing: Viton®
Protection	field enclosure IP 67; plug IP 65
Measuring principle	piezoresistive
Ex-approval (optional)	II 1G Ex ia IIC T4; ATEX 2011X
Mechanical strength	• vibration: 10 g RMS (202000 Hz) • shock: 100 g/11 ms
Accessories	
Surge arrestor	type 9001/51-280-091-141 ATEX for connection to SPS in Zone 1
PA430 plug-on display	4-20 mA; LED; self-supplied via UniBar E plug connector
PA430-Ex	see above for Ex zone 1
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