



UniBar E

2-wire pressure transmitter 4/20 mA @ 24Vdc with G1/2" threaded connection (DIN 3852)

ELECTRONICS

ACOUSTIC

WEIGHT

OVERLOADING
SAFETY SYSTEMS

VALVES

TEMPERATURE

DETECT
A FIRE®

FLOW

DENSITY

INTERFACE

PRESSURE

LEVEL



- **Stainless steel diaphragm**
- **Piezoresistive 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 @ 24 Vdc 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.

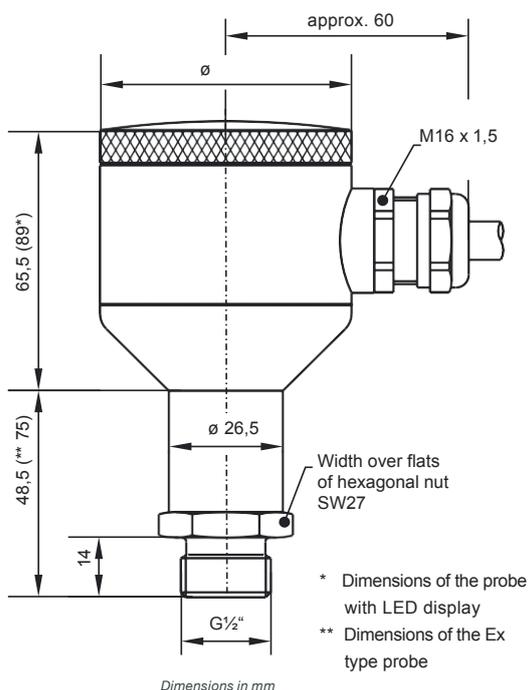
The use under such extreme conditions is possible by using piezoresistive measurement cells made of stainless steel (1.4404).

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.

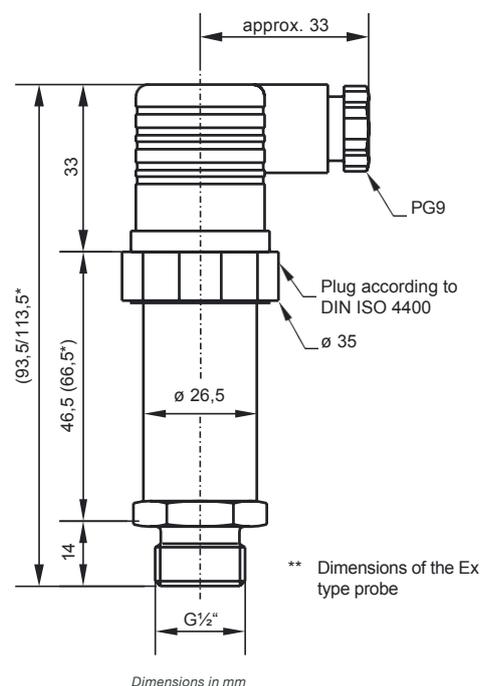
The probe utilises 2-wire technology. Optionally available is a 4-character LED display integrated in the enclosure lid.

Technical Specifications

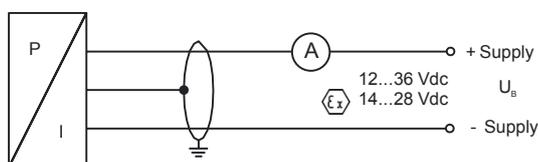
Dimensions



Dimensions



Connection



Connection

DIN 4400
PIN 1 = Supply +
PIN2 = Supply -
PIN3 = not connected

GND = PE

SCREW-IN PROBE

Measurement range/overpressure	1 mWC / 1 bar	2 mWC / 1 bar	Temperature of measured substance	-25 °C to +125 °C		
	4 mWC / 1 bar	6 mWC / 3 bar		Storing temperature	-40 °C to +100 °C	
Power supply	10 mWC / 3 bar	20 mWC / 6 bar	Material	<ul style="list-style-type: none"> field enclosure stainless steel 1.4404 (inox 316L) with cable gland made of nickel-plated brass plug "enclosure" stainless steel 1.4404 (inox 316L) 		
	1 bar / 3 bar	2 bar / 6 bar		Medium-contacting	<ul style="list-style-type: none"> diaphragm: stainless steel 1.4435 (inox 316Ti) pressure conn. stainless steel 1.4571 sealing: Viton® 	
	4 bar / 20 bar	6 bar / 20 bar			Protection	field enclosure IP 67; plug IP 65
	10 bar / 20 bar	20 bar / 90 bar			Measuring principle	piezoresistive
	Special measurement ranges on request				Ex-approval (optional)	II 1G Ex ia IIC T4; ATEX 2011X
Power supply	12 to 36 V DC, Ex: 14 to 28 V DC	Mechanical strength	<ul style="list-style-type: none"> vibration: 10 g RMS (20...2000 Hz) shock: 100 g/11 ms 			
Output signal	4-20 mA, 2-wire technology	Accessories				
Accuracy according to IEC 60770	0.25% / 0.35% FSO	Surge arrestor	type 9001/51-280-091-141 ATEX for connection to SPS in Zone 1			
Long-term stability	± 0,1% FSO/year	PA430 plug-on display	4-20 mA; LED; self-supplied via UniBar E plug connector			
Electric connection	field enclosure M16 x 1.5 / plug PG 9	PA430-Ex	see above for Ex zone 1			
Process connection	G1/2" DIN 3852 open connection with 12 mm diameter					
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)					