

STAINLESS STEEL PROBE for water and clean or waste fluids



DRUCK & TEMPERATUR

Nominal pressures 0...1 mH₂O - 0...250 mH₂O

Option: Ex-version Zone 0

Application

Water / filtrated sewage

Drinking water system

Ground water level measurement

Rain spillway basin, pump and booster stations

Level measurement in container

Water treatment plants, water recycling

Fuel / Oil

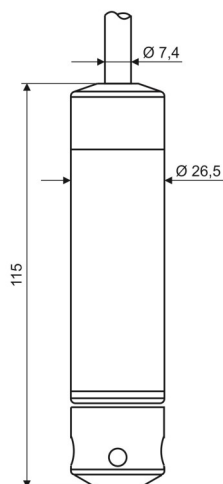
Fuel storage, tank farm



Type	3231	Options
Nominal pressure	0...1 mH ₂ O up to 0...200 mH ₂ O	
Output signal	4...20 mA / 2-wire	0...20 mA / 3-wire 0...10 V / 3-wire U _B = 14 ... 30 VDC
Power supply	8...32 V _{DC} / 2-wire	
Response time	2-wire: ≤ 10 ms; 3-wire: ≤ 3 ms	
Accuracy	Nominal pressure <0,4 bar: ≤ ± 0,5 % FSO Nominal pressure ≥0,4 bar: ≤ ± 0,35 % FSO	≥0,4 bar: ≤ ± 0,35 % FSO all P _N : ≤ ± 0,1 % FSO
Long term stability	≤ ± 0,1 % FSO / year at reference conditions	
Permissible load	Current 2-wire: R _{max} = [(U _B -U _{bmin})/0,02 A] Ω Current 3-wire: R _{max} = 500 Ω	
Influence effects	Supply: 0,05% FSO / 10 V, Bürde: 0,05 % FSO / KΩ	
Tolerance band	PN < 0,40 bar ≤ ± 1 % FSO PN ≥ 0,40 bar ≤ ± 0,75 % FSO in compensated range 0...70°C	
Temperatures	Medium -10...70°C, storage -25...70°C	
Electrical protection	permanent short-circuit protection, reverse polarity protection, emission and immunity according to EN 61 326	additional external overvoltage protection unit in terminal box
Electrical connection Cable with sheat material	PVC (-5...70°C), grey Ø 7,4 mm PUR (-10...70°C), black Ø 7,4 mm FEP (-10...70°C), black, Ø 7,4 mm do not use freely suspended probes with an FEP cable if effects due to highly charging processes are expected	
Materials	Case: 1.4404 Diaphragm: 1.4435 Seals: FKM Protection cape: POM-C	other seals on request
Current consumption	Output max. 25 mA	
Weight	approx. 200 g without cable	
Protection	IP 68	
Special versions only for 4...20 mA / 2-wire	SIL 2-version acc.to IEC 61508 / IEC 61511 EX-version acc. to ATEX directive 2014/34/EU	
Accessories optional	Mounting flange with cable gland, terminal clamp, any process displays	

Type 3231

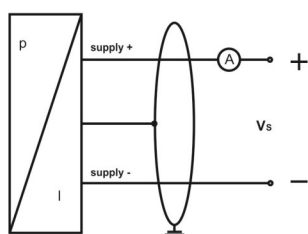
Dimensional drawings Dimensionen in mm



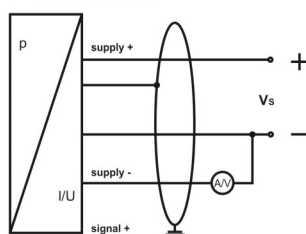
Total length of devices with accuracy 0,1% FSO increases by 35 mm!

Wiring diagrams

2-wire-system (current)

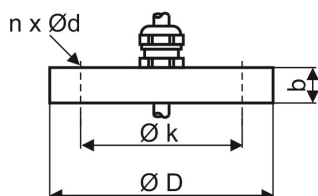


3-wire-system (voltage)



Mounting flange with cable gland

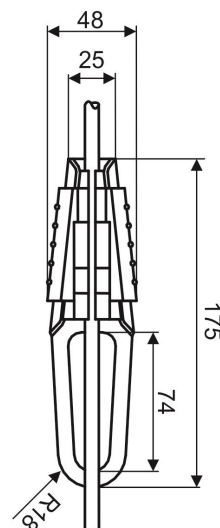
M16x1,5 with seal insert (for cable Ø4...11 mm)



Version	D	k	b	n	d	Weight
DN25/PN40	115	85	18	4	14	1,4 kg
DN50/PN40	165	125	20	4	18	3,2 kg
DN80/PN16	200	160	20	8	18	4,8 kg

Terminal clamp

for cable Ø5,5...10,5 mm
Steel zinc-plated, opt. 1.4301



Input pressure range

Nominal pressure rel. Bar	0,1	0,16	0,25	0,4	0,6	1	1,6	2,5	4	6	10	16	25
Level mH ₂ O	1	1,6	2,5	4	6	10	16	25	40	60	100	160	250
Overpressure in bar	0,5	1	1	2	5	5	10	10	20	40	40	80	80
Burst pressure ≥ in bar	1,5	1,5	1,5	3	7,5	7,5	15	15	25	50	50	120	120