BLP1

Level Probe

The level probe BLP1 was designed for severe conditions, especially for navigation or offshore applications.

Due to the housing material CuNiFe, a special copper-nickel alloy, in combination with several mounting types, the BLP1 can be used with all media occurring in the field of navigation, and with various tank, container and basin configurations.

Features

- Accuracy acc. to IEC 60770 0.25% / 0.1% FSO
- Marine approval: DNV-GL
- ▶ Level probe made of CuNiFe alloy (1.4404 on request)
- ► Excellent seawater resistance
- Installation in tank as submersible probe with cable, with stainless steel pipe or with mounting bracket
- Installation outside the tank by means of threaded connection
 - and optionally with adapter flange DN25 or DN50
- ▶ Due to flush measuring diaphragm even suitable for high viscosity media (removable protection cap)
- Low temperature error, long-term stability
- ► High resistance to electrical faults (incorrect wiring, short circuit and overvoltage)
- ► Rugged and reliable
- ► Option: Ex II 1G Ex ia IIB T4 Ga



Ballast containers Fuel and oil tanks Service and waste water tanks Draft measuring systems Tank level measuring systems



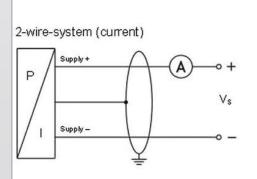
Clamp Material

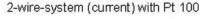
Clamp material	Dimension						
material	а	L					
CuNiFe	82/3.22	100/3.93					
Stainless steel	100/3.93	130/5.11					

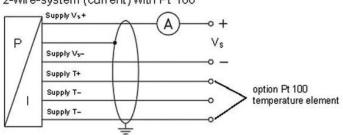
Connection Chart

Pin configuration	Electrical connections Cable colors according to DIN 47100				
2-wire-system: Supply + Supply – Earth	white brown Cable shield				
Option PT100 Supply + Supply – Supply –	yellow grey pink				

Wiring Diagrams







Level Probe



Technical Data

Materials: Housing:	Copper-nickel alloy (CuNi10FE1Mn) Option: stainless steel 1.4404														
Diaphragm: Seals: Cable sheath:	option: stainless steel 1.4404 standard: ceramics Al ₂ O ₃ 96 % FKM, option: FFKM TPE, seawater-proof, halogen-free, temperature resistant up to 125 °C														
Protection class:	IP68 (DIN 40050)														
Weight (without cable):	approx. 400 g														
Measuring range: Nominal pressure PN [bar] rel.:	0.04	0.06	0.1	0.16	0.25		0.6	1.0	1.6	2.5	4	6	10	16	20
Filling height FH [mWC]:	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	160	200
perm. overpressure Pmax [bar]	2	2	4	4	6	6	8	8	15	25	25	35	35	45	45
Linearity error: Standard: Option:	acc. to IEC 60770 - limit point adjustment (nonlinearity, hysteresis, repeatability) ≤ ±0.25 % FSO ≤ ±0.1% FSO														
Load:	2-wire system: [UB (V) – 10 V] / 0.02 A														
Influence effects: Auxiliary energy: Load:	≤ ±0.05% FSO / 10 V ≤ ±0.05% FSO / kΩ														
Electrical connection:	Special cable with integrated air tube for atmospheric reference														
Cable protection: Standard: Special design:	without cable protection Stainless steel pipe (available as compact product with stainless steel pipe with a total length of up to 2 m)														
Auxiliary energy: Standard: Option:	Operating voltage: 9 32 V DC Ex protection: 14 28 V DC														
Output signal: Standard: Current:	2-wire system 4 20 mA														
Temperature:	PT100) (3-wire	e)												
Long-term stability:	≤ ±0.1	% FSC	/year	•											
Temperature error: error for offset and span: in compensated range:	≤ ± 0.1 % FSO -20 88 °C														
Temperature range: Operating temperature: Storage:	-25 °C +125 °C -40 °C +125 °C														
Mechanical stability:	4 g Vi	bration	acc. t	o IEC 6	0 068-	-2-6									
Approvals:	DNV-GL Optional: ATEX Cert. No IBExU10ATEX1142 X / Ex II 1G Ex ia IIB T4 Ga, amibient temperature range: -25°C ≤ Ta ≤ +70°C The device may only be operated in an explosive atmosphere that requires category 1 equipment if atmospheric conditions are present (temperature -20°C to +60°C, pressure from 0.8 bar to 1.1 bar).														
Mounting accessories (not included in the scope of delivery):	Mounting clamp made of CuNiFe, stainless steel Mounting flange for fixing submersible level transmitter made of stainless steel DN25 / PN40														

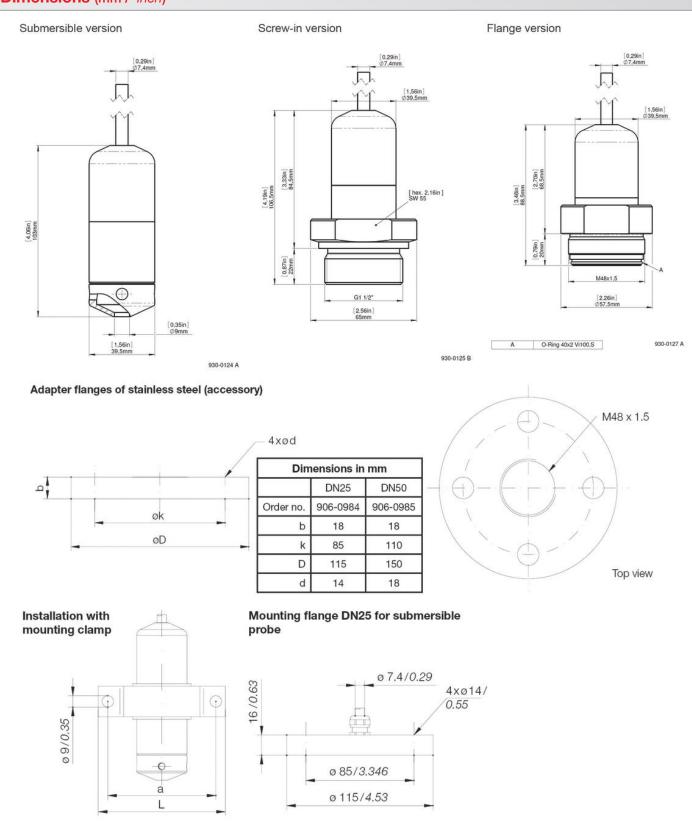
Accessories

Order Number	Description								
906-0984	Adapter flange DN25 / PN40 for flange probe								
906-0985	Adapter flange DN50 / PN40 for flange probe								
0499-022	Mounting flange for fixing submersible probe made of stainless steel DN25/PN40								

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Dimensions (mm / inch)



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Order Code

BLP1								Base model
								Process Connection
	s							Submersible probe
	F							Flange M48x1,5
	E							G11/2" screw-in probe
								Range
		mWs	bar					
		0,4	0,04					00,4 mWs (00,04 bar)
		0,6	0,06					00,6 mWs (00,06 bar)
		1,0	0,10					01 mWs (00,1 bar)
		1,6	0,16					01,6 mWs (00,16 bar)
		2,5	0,25					02,5 mWs (00,25 bar)
		4	0,4					04 mWs (00,4 bar)
		6	0,6					06 mWs (00,6 bar)
		10	1,0					010 mWs (01 bar)
		16	1,6					016 mWs (01,6 bar)
		25	2,5					025 mWs (02,5 bar)
		40	4,0					040 mWs (04 bar)
		60	6,0					060 mWs (06 bar)
		100	10					0100 mWs (010 bar)
		160	16					0160 mWs (016 bar)
		200	20					0200 mWs (020 bar)
								Housing
				SS				Stainless steel 1.4404 (316L)
				CNF				CuNiFe1MN
								Electrical connection
					TxM			TPE cable x meter (to order separately)
								Sealing
						F		FKM
						FF		FFKM
								Option
							EX	Exi Approval
							PT100	PT100 (not Exi)
Order code example:								
BLP1 /	S /	6m	ws /	SS /	T10M /	F /	PT100	
DEFT /	3 /	OIII	,	00 /	i i Oivi /	' '	1 100	

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