



OPTIFLEX 1300 C Technical Datasheet

Guided Radar (TDR) Level Meter

- Universal device that can measure level of liquids, pastes, granulates, powders, and liquid interface
- Easy to install: onsite calibration is not needed
- Operates up to 300 bar / 4350 psi



The superior TDR solution

OPTIFLEX 1300 C has higher signal dynamics and a sharper pulse than conventional TDR devices and therefore better reproducibility and accuracy. OPTIFLEX 1300 C is a Guided Radar (TDR) Level Meter for measuring distance, level, interface, level and interface, volume and mass. A variant with a remote housing can be mounted up to 14 m / 45 ft from the probe.



- ① Touch screen with 4-button operation
- ② 2-wire level meter
- ③ Housing is rotatable and removable under process conditions
- ④ 5 different types of probes suitable for a wide range of media
- ⑤ Same housing for Ex and non-Ex
- ⑥ Large graphical display

Highlights

- Optimal process safety
- Displays level and interface
- Installation wizard
- Easy navigation using a touch screen without opening the housing
- PACTware and DTMs included as standard
- Optional second current output - used for displaying interface measurements, for example
- Higher signal dynamics and sharper pulses improve accuracy
- Display in 9 languages: even in Chinese, Japanese and Russian

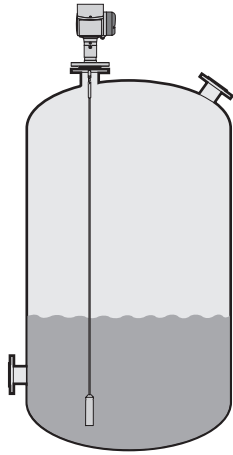
Industries

- Chemicals
- Petrochemicals
- Oil & Gas
- Minerals & Mining
- Wastewater
- Pulp & Paper

Applications

- Blending and Distillation tanks
- Distillation tank
- Process tank
- Separator
- Solid silos (inventory)
- Storage tanks

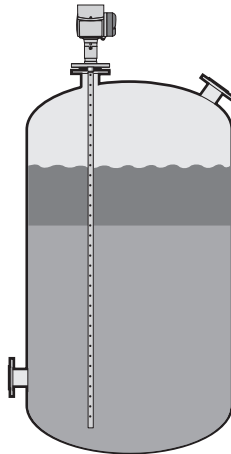
Applications



1. Level measurement of liquids

OPTIFLEX 1300 C can measure the level of a wide range of liquid products on a large variety of installations, including LPG and LNG. It does not require calibration or commissioning when installed. It can measure any liquid within the stated pressure and temperature range.

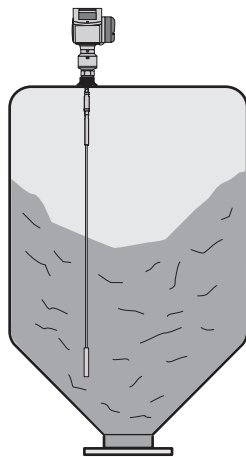
A number of probe end attachments are available. For example, the user can fix the end of cable probes to heating coils: this prevents deposits building up on the probe.



2. Interface measurement of liquids

OPTIFLEX 1300 C can measure interface with or without an air gap and level and interface simultaneously. It has an optional second analogue output.

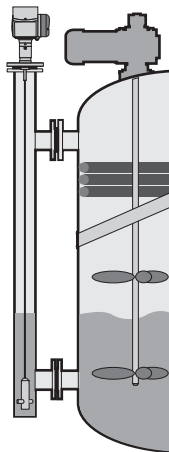
OPTIFLEX 1300 C has a top dead zone of only 10 mm / 0.4": this makes it ideal for tracking full tank or ballast interface.



3. Level measurement of solids

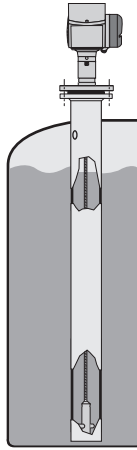
OPTIFLEX 1300 C has a strengthened 8 mm / 0.3" cable probe for measuring powders and granulates in silos up to 35 m / 115 ft high. The 4 mm cable probe is used for small silos.

If a product has a very low dielectric constant ($\epsilon_r < 1.6$), OPTIFLEX 1300 C automatically switches to TBF (Tank Bottom Following) mode and keeps operating.



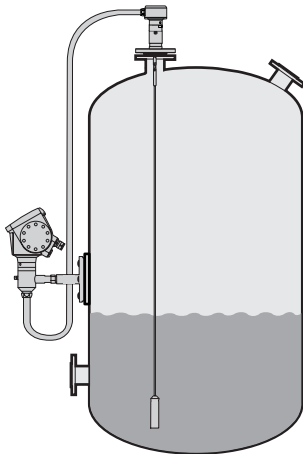
4. Measurement of liquids in a bypass chamber

OPTIFLEX 1300 C can measure accurately in agitated conditions and in the presence of foam. If the tank is full of obstructions such as agitators and reinforcements, KROHNE recommends installing the OPTIFLEX 1300 C in a bypass chamber. This solution is available from KROHNE under the name BM 26 F. Please refer to the BM 26 F Technical Datasheet for further information.



5. Measurement of liquids in a still well

You can also install the **OPTIFLEX 1300 C** in still well if there are vortices, agitators or other obstructions in the tank. **OPTIFLEX**'s setup wizard allows you to quickly configure your instrument to suit specific types of installations and get the best possible performance from it.



6. Remote display on high or inaccessible tanks

If it is difficult or impossible to read **OPTIFLEX**'s integrated display at the top of the tank, **KROHNE** recommends the remote display variant. It is provided with a cable up to 14.5 m / 47.5 ft. long and a bracket for mounting in an accessible position.

Technical Data

Input

Function	Time Domain Reflectometry (TDR)
Parameter	Level, distance, volume and/or interface
Max. measuring range	
Double rod Ø8 mm / 0.3"	4 m / 13 ft
Single rod Ø8 mm / 0.3"	4 m / 13 ft
Coaxial Ø22 mm / 0.9"	6 m / 20 ft
Double cable Ø4 mm / 0.15"	8 m / 26 ft
Single cable Ø2 mm / 0.08"	35 m / 115 ft
Single cable Ø4 mm / 0.15"	35 m / 115 ft
Single cable Ø8 mm / 0.3"	35 m / 115 ft

Output

Output signal (Output 1)	4...20 mA HART® or 3.8...20.5 mA acc. to NAMUR NE 43
Output signal (Output 2)	4...20 mA (no HART® signal) or 3.8...20.5 mA acc. to NAMUR NE 43 ①
Resolution	±3 µA
Temperature drift	Typically 50 ppm/K
Error signal	High: 22 mA; Low: 3.6 mA acc. to NAMUR NE 43

Reference conditions acc. to EN 60770

Temperature	+20°C ±5°C / +70°F ±10°F
Pressure	1013 mbar abs. ±20 mbar / 14.69 psig ±0.29 psig
Relative air humidity	60% ±15%

Accuracy

Resolution	1 mm / 0.04"
Repeatability	±1 mm / ±0.04"
Accuracy (in direct mode)	
Liquids	±3 mm / ±0.12", when distance < 10 m / 33 ft; ±0.03% of measured distance, when distance > 10 m / 33 ft
Powders	±20 mm / ±0.8"
Interface	±10 mm / ±0.4" (εr constant)
Accuracy (in TBF mode)	±20 mm / ±0.8" (εr constant)
Minimum layer (interface)	50 mm / 2"

Process conditions

Ambient temperature	-40...+80°C / -40...+175°F (EEx i: see supplementary operating instructions or approval certificates)
Storage temperature	-40...+85°C / -40...+185°F
Flange temperature	-40...+200°C / -40...+390°F (EEx i: see supplementary operating instructions or approval certificates) ②
Thermal shock resistance	100°C/min
Operating pressure	-1...300 bar / -14.5...4350 psig; subject to process connection temperature and probe type used ③
Dielectric constant (ϵ_r)	
Level in direct mode	≥ 1.4 for coaxial probe; ≥ 1.6 for single and double probes
Interface in direct mode	$\epsilon_r(\text{interface}) \gg \epsilon_r(\text{level})^2$
Level in TBF mode	≥ 1.1
Vibration resistance	IEC 68-2-6 and EN 50178 (10...57 Hz: 0.075 mm / 57...150 Hz:1g)
Protection category	IP 66/67 equivalent to NEMA 6-6X

Material

Housing	Aluminium
Single rod	Stainless steel (1.4404 / 316 L); Hastelloy® C-22 (2.4602)
Double rod	Stainless steel (1.4404 / 316 L); Hastelloy® C-22 (2.4602)
Coaxial	Stainless steel (1.4404 / 316 L); Hastelloy® C-22 (2.4602)
Single cable	Stainless steel (1.4401 / 316); Hastelloy® C-22 (2.4602) (only cable $\varnothing 4$ mm / 0.15") ④
Double cable	Stainless steel (1.4401 / 316)
Process fitting	Stainless steel (1.4404 / 316L); Hastelloy® C-22 (2.4602)
Gaskets	FKM/FPM (-40...+200°C / -40...+390°F); Kalrez® 6375 (-20...+200°C / -5...+390°F)
Weather protection (Option)	Stainless steel (1.4301 / 304)
Conduit for remote housing (Option)	Zinc-coated steel in a PVC sheath (-40...+105°C/-40...+220°F)

Process connections

Thread, single cable $\varnothing 2$ mm / 0.08"	G 1/2; 1/2 NPT
Thread, all other probes	G 3/4...1 1/2; 3/4...1 1/2 NPT
Flange	DN25...150 (PN40 / PN16); 1"...8" (150 lb / 300 lb); 10K (40...100A)

Electrical connections

Instrument terminal 1 - Non-Ex / EEx i	14...30 VDC ⑤
Instrument terminal 1 - EEx d	20...36 VDC ⑤
Instrument terminal 2 - Non-Ex/ EEx i/ EEx d	10...30 VDC ⑥
Cable entry	M20x1.5; 1/2 NPT; G 1/2 (not for FM- and CSA-approved devices)
Cable tightening capacity	0.5...1.5 mm ²

User interface

Display	9 lines, 160 x 160 pixels in 8-step greyscale with 4-button keypad
Operating languages	English, German, French, Italian, Spanish, Portuguese, Japanese, Chinese (Mandarin) and Russian

Approvals

ATEX	ATEX II 1, 1/2, 2 G/D EEx ia IIC T6...T3; ATEX II 1/2, 2 G/D EEx d [ia] IIC T6...T3; ATEX II 3 G EEx nA IIC T6...T3
IECEX	Ex iaD 21 T65...T90 IP 6X; Ex ia IIC T6...T4 IP 66
FM or CSA	
NEC 500/ CEC	Cl. I, Div . 1, Gr. ABCD (IS);
	Cl. I, Div . 1, Gr. ABCD (FM only) (XP);
	Cl. I, Div . 2, Gr. ABCD (XP/NI);
	Cl. II, Div . 1, Gr. EFG; Cl. III (FM only) (XP);
	Cl. II Div . 1, Gr. EFG; Cl. III (IS);
NEC 505/ CEC	Cl. I, Zone 0 AEx ia Gr. IIC (CSA: Ex ia) (IS);
	Cl. I, Zone 1 AEx d [ia] Gr. IIC (XP);
	Cl. I, Zone 2, AEx nA [ia], Gr. IIC (CSA: Ex nA [ia]) (IS)
NEPSI	Ex dia IIC T3...T6; Ex ia IIC T3...T6
WHG (pending)	In conformity with the German Federal Water Act
Other approvals	Gosstandard; PESO (India)

Options and Accessories

Options	Integrated LCD display with sun cover;
	2nd current output;
	Remote housing connected to the probe via a flexible conduit Standard lengths: 2180 mm / 7 ft, 4720 mm / 15.5 ft, 9800 mm / 32 ft and 4880 mm / 48.5 ft
Accessories	Weather protection

- ① optional
- ② refer to the Pressure/temperature table for probe selection. 315°C / 599°F pending for the high-temperature (HT) version of the Ø2 mm / 0.15" single cable probe.
- ③ refer to the Pressure/temperature table for probe selection
- ④ Hastelloy® C-22 (2.4602) on request for the Ø2 mm / 0.15" single cable probe.
- ⑤ min./max. value for an output of 22 mA at the terminal
- ⑥ min./max. value for an output of 22 mA at the terminal (additional power supply needed - output only)

Probe selection

	Double rod	Single rod	Coaxial	Double cable	Single cable Ø8 mm / 0.3"	Single cable Ø4 mm / 0.15"	Single cable Ø2 mm / 0.08"
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Maximum probe length, L

4 m / 13 ft	■						
6 m / 20 ft			■				
24 m / 78 ft				■			
35 m / 115 ft					■	■	■

Liquids

Liquid application	■	■	■	■	■	■	■
LPG, LNG	■		■	■			
Highly viscous liquids		■				■	■
Highly crystallising liquids		■				■	■
Highly corrosive liquids	■	■	■			■	■
Foam		■	■			■	■
Agitated liquids	■		■	①		①	①
Spray in tank			■				
Storage tanks	■	■	■	■		■	■
Installation in bypass chamber	■	■	■	■		■	■
Small diameter nozzles	■		■	■			
Long nozzles	■		■	■			
Stilling wells	■	■	■	■		■	■
Interface measurement	■		■	■		②	②

Solids

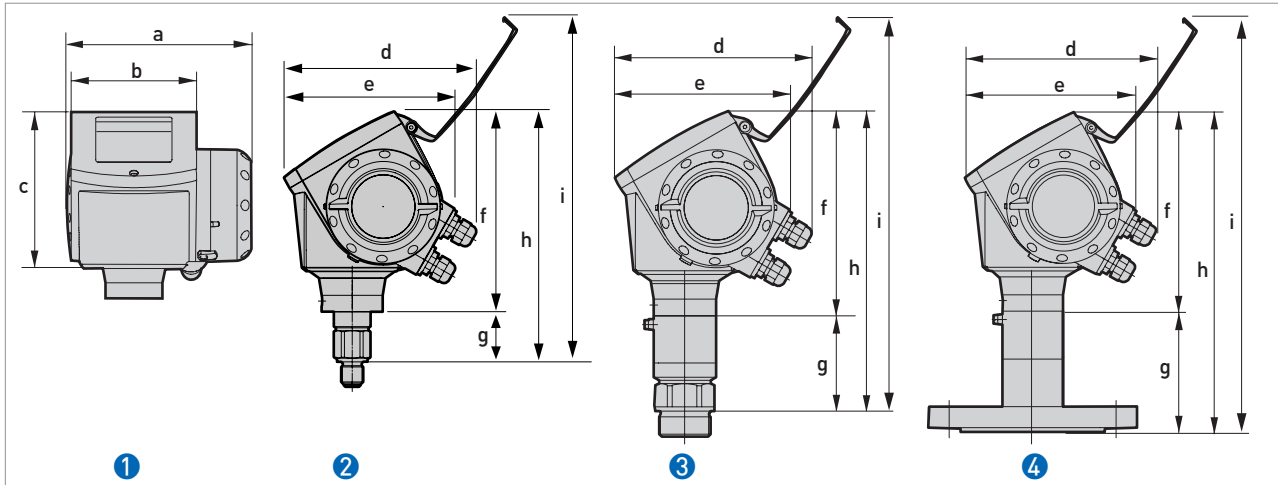
Powders					■	③	
Granules, <5 mm / 0.1"					■	③	

■ standard ■ optional □ on request

- ① with anchor fitting
- ② max. length is 20 m / 65.5 ft
- ③ max. length is 10 m / 33 ft

Dimensions and Weight

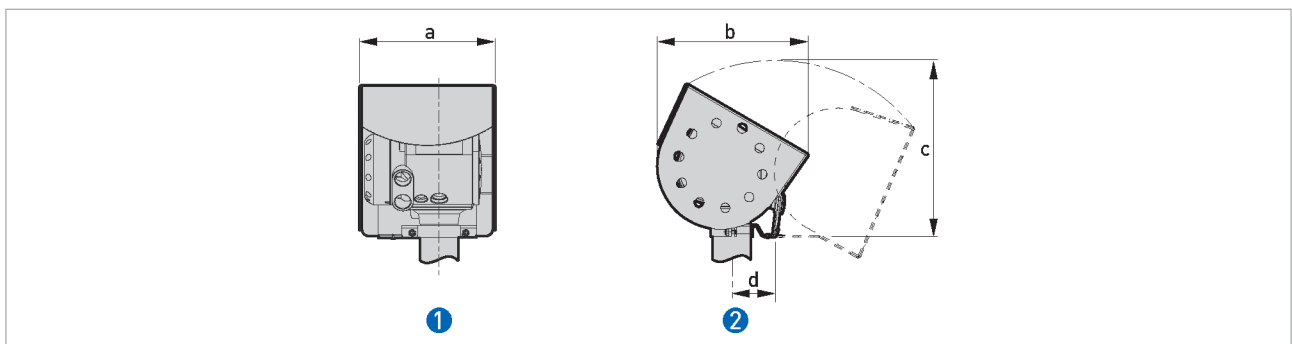
Standard housing



- ① Converter (front view)
- ② Thread version for $\varnothing 2$ mm/0.08" single cable probe (right side)
- ③ Thread version for all other probes (right side)
- ④ Flange version (right side)

Note:

- Cable glands are delivered on demand with non-Ex, EEx i- and EEx d-approved devices.
- Non-Ex and EEx i fittings are plastic and EEx d fittings are metallic. Non-Ex fittings are black and EEx i fittings are blue.
- The diameter of the outer sheath of the cable must be 6...12 mm or 0.2...0.5".
- Cable glands for FM- or CSA-approved devices must be supplied by the customer.



- ① Weather protection (rear view)
- ② Weather protection (left side)

Dimensions and Weight in mm and kg

	Dimensions [mm]								Weight [kg]
	a	b	c	d	e	f	g	h	
Housing	180	122	158.5	182 ①	170	190	-	-	3.3
Flange DN25...80	180	122	158.5	182 ①	170	190	126.5	316.5	4...7
Flange DN100...150	180	122	158.5	182 ①	170	190	126.5	316.5	7...12
Thread, single cable Ø2	180	122	158.5	182 ①	170	190	48	238	4
Thread, all other probes	180	122	158.5	182 ①	170	190	99	289	3

① if fitted with standard cable glands

Dimensions and Weight in inches and lbs

	Dimensions [inches]								Weight [lbs]
	a	b	c	d	e	f	g	h	
Housing	7.1	4.8	6.2	7.2 ①	6.7	7.5	-	-	7.3
Flange ASME1...3	7.1	4.8	6.2	7.2 ①	6.7	7.5	5.0	12.5	8.8...15.4
Flange ASME4...8	7.1	4.8	6.2	7.2 ①	6.7	7.5	5.0	12.5	15.4...26.5
Thread, single cable Ø0.08	7.1	4.8	6.2	7.2 ①	6.7	7.5	1.9	9.4	8.8
Thread, all other probes	7.1	4.8	6.2	7.2 ①	6.7	7.5	3.9	11.4	6.6

① if fitted with standard cable glands

Dimensions and Weight in mm and kg

	Dimensions [mm]				Weight [kg]
	a	b	c	d	
Weather protection	208	231.5	268 ①	66	2.9

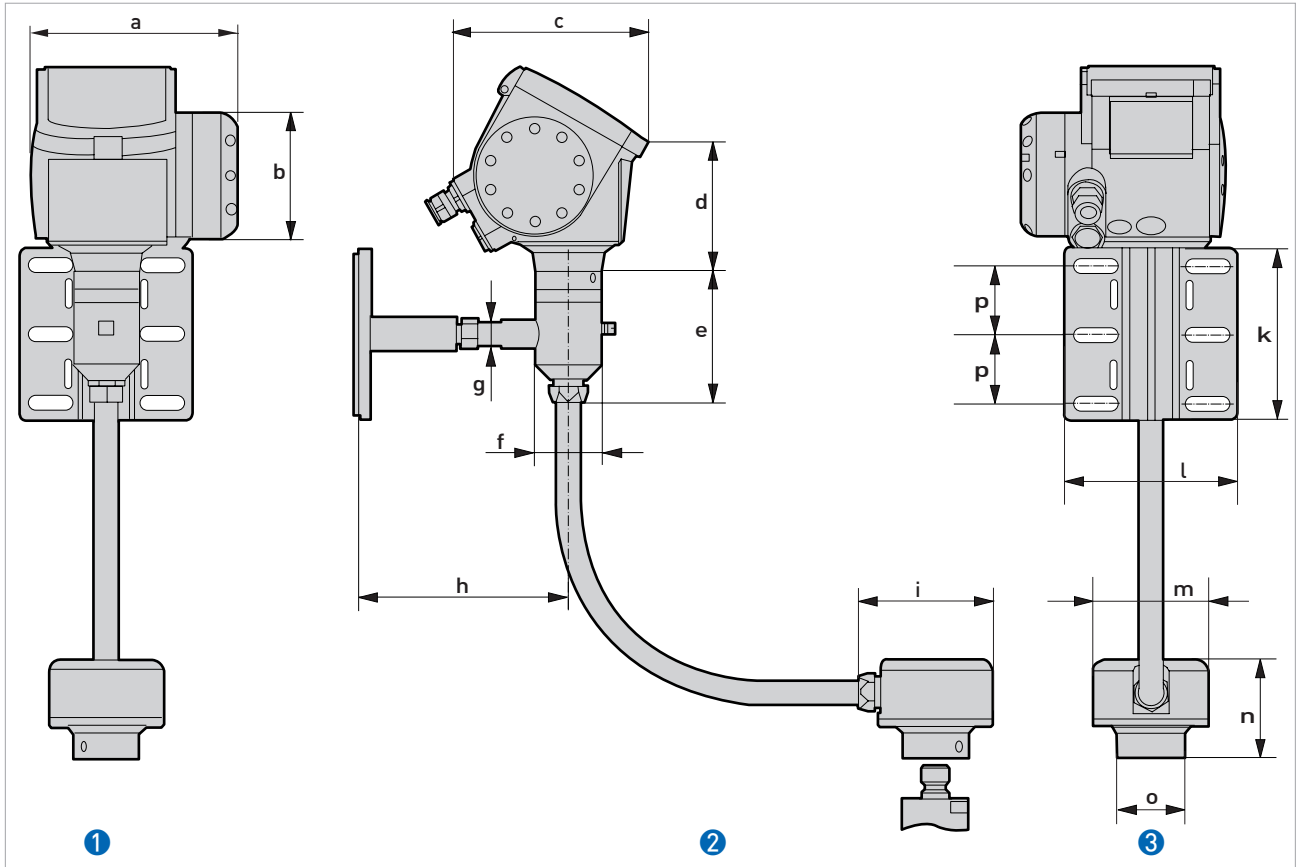
① radius

Dimensions and Weight in inches and lbs

	Dimensions [inches]				Weight [lbs]
	a	b	c	d	
Weather protection	8.2	9.1	10.6 ①	2.6	6.4

① radius

Remote housing



- ① Front view
- ② Left side
- ③ Rear view

Dimensions and Weights in mm and kg

	Dimensions [mm]															Weight [kg]
	a	b	c	d	e	f	g	h	i	k	l	m	n	o	p	
Remote version	180	109	165	193	98.5	58	21	183	117	150	150.4	100	86	58	60	6.6... 12.85 ①

- ① wall bracket (1.4 kg) + housing support (1.5 kg) + remote probe housing (2.7 kg) + flexible conduit (2 m: 1 kg; 4.5 m: 2.25 kg; 9.5 m: 4.75 kg; 14.5 m: 7.25 kg)

Dimensions and Weights in inches and lbs

	Dimensions [inches]															Weight [lbs]
	a	b	c	d	e	f	g	h	i	k	l	m	n	o	p	
Remote version	7.09	4.29	6.50	7.60	3.88	2.28	0.83	7.20	4.60	5.91	5.92	3.94	3.39	2.28	2.36	14.6... 28.3 ①

- ① wall bracket (3.1 lbs) + housing support (3.3 lbs) + remote probe housing (6.0 lbs) + flexible conduit (6.6 ft: 2.2 lbs; 14.8 ft: 5.0 lbs; 31.2 ft: 10.5 lbs; 47.6 ft: 16.0 lbs)

Remote version limits

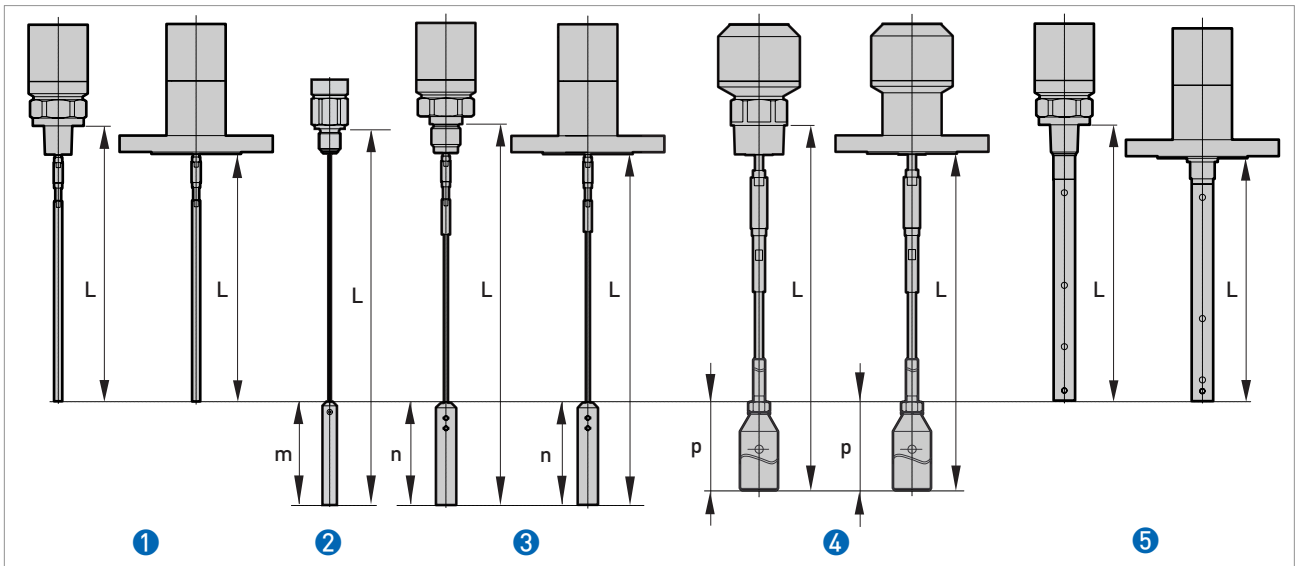
- For interface and solid (powder, granulate) applications the maximum extension length is 4.5 m / 14.8 ft.
- For liquid level applications, the maximum measuring range is reduced according to the length of the electric cable between the flange and the converter (extension length).

Extension length		Max. measuring range	
[m]	[ft]	[m]	[ft]
2	6.6	30	98
4.5	14.8	25	82
9.5	31.2	15	29
14.5	47.6	5	16.4

Applications

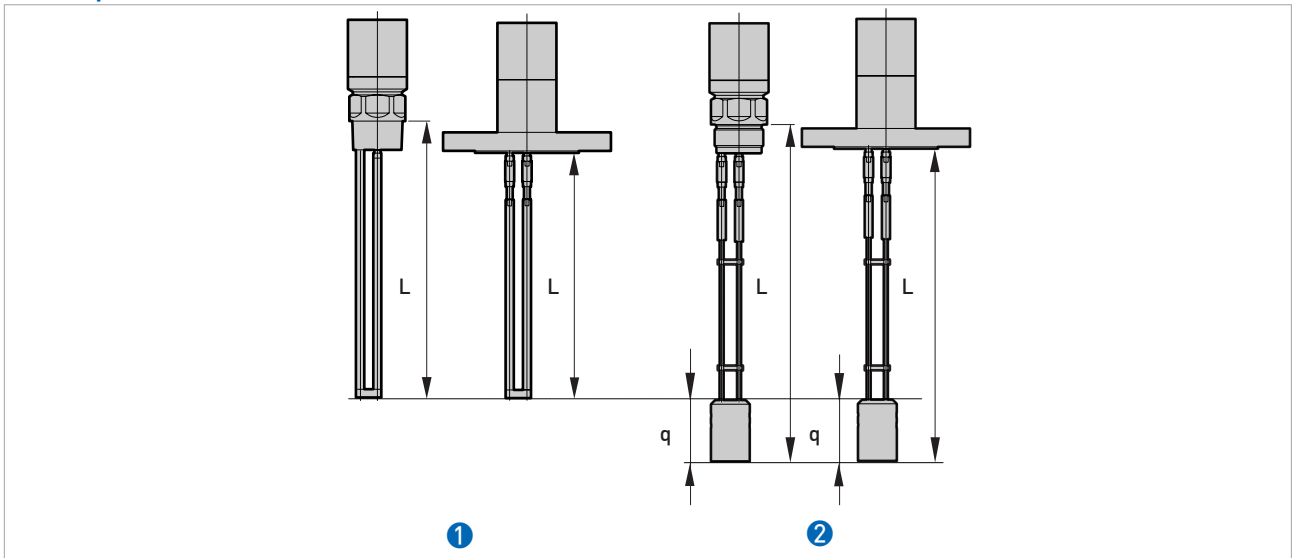
- Tank with a lot of vibration
- Limited space on the top of the tank or limited access (due to the size of the compact converter)
- Remote display at the bottom of the tank

Single probes



- ① Single rod $\varnothing 8$ mm / $\varnothing 0.3$ " (thread and flange versions)
- ② Single cable $\varnothing 2$ mm / $\varnothing 0.08$ " (thread version)
- ③ Single cable $\varnothing 4$ mm / $\varnothing 0.15$ " (thread and flange versions)
- ④ Single cable $\varnothing 8$ mm / $\varnothing 0.3$ " (thread and flange versions)
- ⑤ Coaxial $\varnothing 22$ mm / $\varnothing 0.9$ " (thread and flange versions)

Double probes



- ① Double rod $\varnothing 8$ mm / $\varnothing 0.3$ " (thread and flange versions)
- ② Double cable $\varnothing 4$ mm / $\varnothing 0.15$ " (thread and flange versions)

Note:

A wide range of counterweights and anchoring solutions are available. Contact KROHNE for further information.

Single probes: Dimensions in mm

Probes	Dimensions [mm]			
	L max.	m	n	p
Single rod Ø8 mm	4000	-	-	-
Single cable Ø2 mm	35000	100	-	-
Single cable Ø4 mm	35000	-	100	-
Single cable Ø8 mm	35000	-	-	0 ①
Coaxial Ø22 mm	6000	-	-	-

① for Ø12 mm counterweight. If Ø38 mm counterweight ordered: 245 mm

Single probes: Dimensions in inches

Probes	Dimensions [inches]			
	L max.	m	n	p
Single rod Ø0.3"	158	-	-	-
Single cable Ø0.08"	1378	3.9	-	-
Single cable Ø0.15"	1378	-	4.0	-
Single cable Ø0.3"	1378	-	-	0 ①
Coaxial Ø0.9"	236	-	-	-

① for Ø0.5" counterweight. If Ø1.5" counterweight ordered: 9.6"

Double probes: Dimensions in mm

Probes	Dimensions [mm]	
	L max.	q
Double rod Ø8 mm	4000	-
Double cable Ø4 mm	8000	60

Double probes: Dimensions in inches

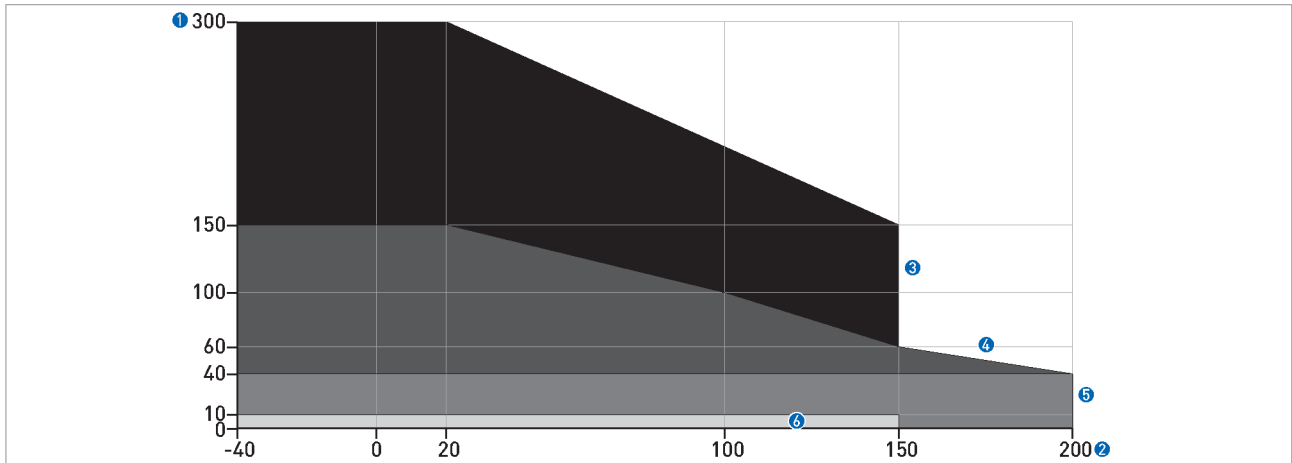
Probes	Dimensions [inches]	
	L max.	q
Double rod Ø0.3"	158	-
Double cable Ø0.15"	315	2.4

Probe weight

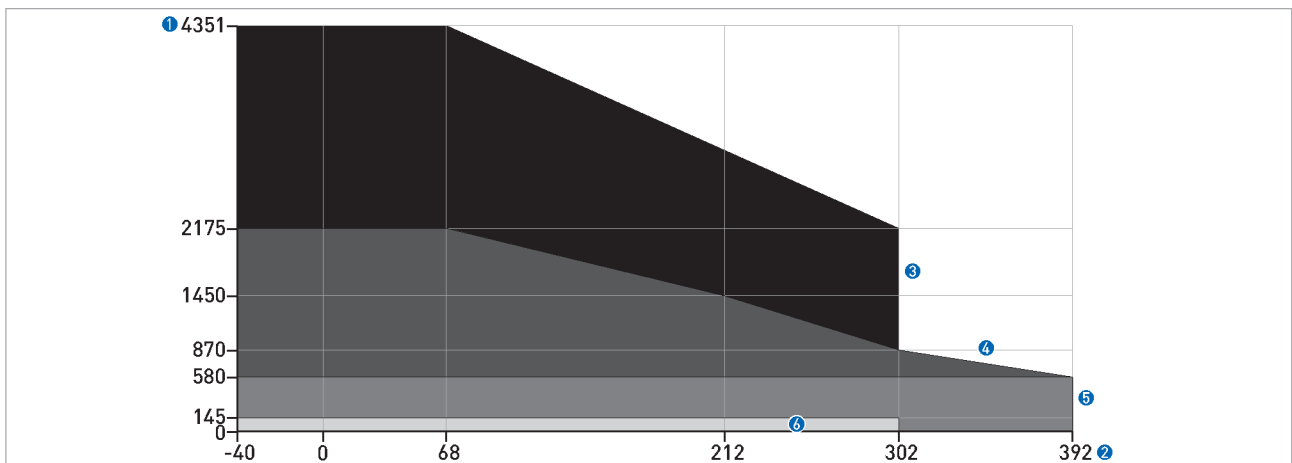
Probes	Min. process connection size		Weight	
	Thread	Flange	[kg/m]	[lbs/ft]
Single cable Ø2 mm / 0.08"	G ½A; NPT ½	-	0.016	0.035
Single cable Ø4 mm / 0.15"	G ¾A; NPT ¾	DN25 PN40; 1" 150 lb; 1½" 300 lb	0.12	0.08
Single cable Ø8 mm / 0.3"	G 1½A ; NPT 1½	DN40 PN40; 1½" 150 lb; 1½" 300 lb	0.41	0.28
Double cable Ø4 mm / 0.15"	G 1½A ; NPT 1½	DN50 PN40; 2" 150 lb; 2" 300 lb	0.24	0.16
Single rod Ø8 mm / 0.3"	G ¾A; NPT ¾	DN25 PN40; 1" 150 lb; 1½" 300 lb	0.41	0.28
Double rod Ø8 mm / 0.3"	G 1½A ; NPT 1½	DN50 PN40; 2" 150 lb; 2" 300 lb	0.82	0.56
Coaxial Ø22 mm / 0.9"	G ¾A; NPT ¾	DN25 PN40; 1" 150 lb; 1½" 300 lb	0.79	0.53

Pressure/temperature table for probe selection

Ensure that the transmitters are used within their operating limits. Observe the following requirements.

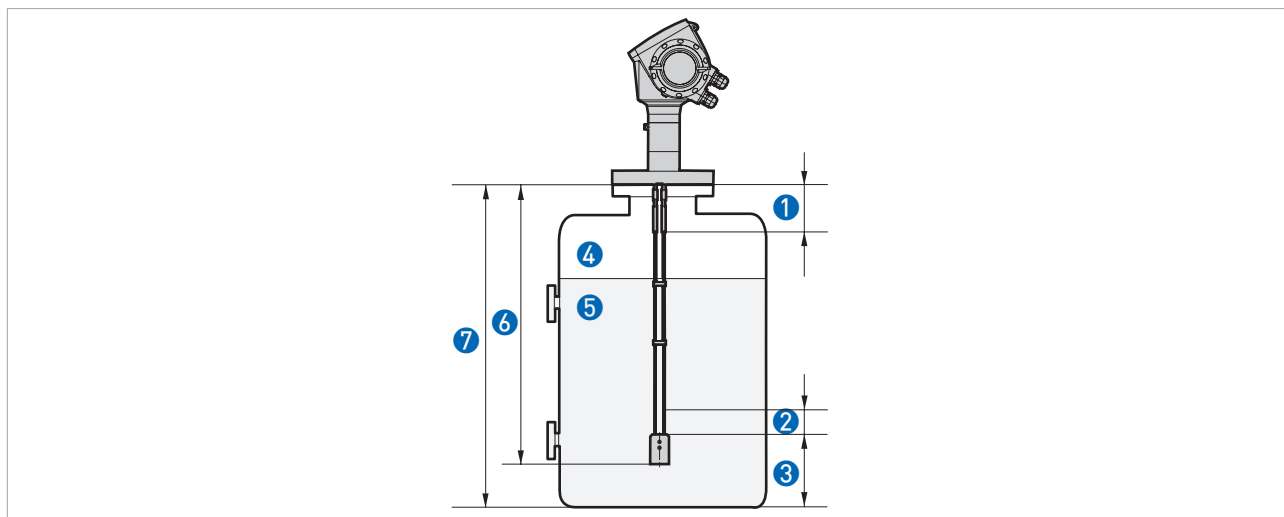


- ① Process pressure, P_s [bar]
- ② Flange temperature, T [°C]
- ③ High-pressure (HP) version of the Ø2 mm single cable probe
- ④ Double rod, double cable, Ø4 mm single cable and coaxial probes
- ⑤ Ø8 mm single cable probe
- ⑥ Standard version of the Ø2 mm single cable probe



- ① Process pressure, P_s [psi]
- ② Flange temperature, T [°F]
- ③ High-pressure (HP) version of the Ø0.08" single cable probe
- ④ Double rod, double cable, Ø0.15" single cable and coaxial probes
- ⑤ Ø0.3" single cable probe
- ⑥ Standard version of the Ø0.08" single cable probe

Measurement limits



- ① **A1, Top dead zone** Min. distance from flange to top limit of measuring range.
- ② **A2, Bottom dead zone:** Length at end of probe, where measurement is not possible.
- ③ **D, Non-measurement zone:** Zone where measurement cannot be taken.
- ④ **Gas (Air)**
- ⑤ **Product 1**
- ⑥ **L, Probe length:** Length specified by customer in the order.
- ⑦ **Tank Height**

Measurement limits in mm

Probes	Top dead zone, A1 $\epsilon_r = 80$	Bottom dead zone, A2 $\epsilon_r = 80$	Top dead zone, A1 $\epsilon_r = 2.3$	Bottom dead zone, A2 $\epsilon_r = 2.3$
	[mm]			
Double rod	125	10	165	50
Single rod	200	10	250	50
Coaxial	10	10	10	50
Double cable	125	10	165	50
Single cable $\varnothing 8$ mm	200	10	250	50
Single cable $\varnothing 4$ mm	200	10	250	50
Single cable $\varnothing 2$ mm	200	10	250	50

80 is ϵ_r of water; 2.3 is ϵ_r of oil

Measurement limits in inches

Probes	Top dead zone, A1 $\epsilon_r = 80$	Bottom dead zone, A2 $\epsilon_r = 80$	Top dead zone, A1 $\epsilon_r = 2.3$	Bottom dead zone, A2 $\epsilon_r = 2.3$
	[inches]			
Double rod	4.90	0.40	6.50	1.95
Single rod	7.90	0.40	9.90	1.95
Coaxial	0.40	0.40	0.40	1.95
Double cable	4.90	0.40	6.50	1.95
Single cable $\varnothing 0.3$ "	7.90	0.40	9.90	1.95
Single cable $\varnothing 0.15$ "	7.90	0.40	9.90	1.95
Single cable 0.08"	7.90	0.40	9.90	1.95

80 is ϵ_r of water; 2.3 is ϵ_r of oil

KROHNE Product Overview

- Electromagnetic flowmeters
- Variable area flowmeters
- Mass flowmeters
- Ultrasonic flowmeters
- Vortex flowmeters
- Flow controllers
- Level measuring instruments
- Pressure gauges
- Temperature measuring instruments
- Water solutions & analysis
- Oil and gas turnkey solutions

Addresses:

Germany

Northern sales office

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Western and middle sales office

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