



## OPTIFLEX 1300 C Technical Datasheet

### Guided Radar (TDR) Level Transmitter for heavy-duty and interface applications

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





## Order code

Make a selection from each column to get the full order code. The characters of the order code highlighted in light grey describe the standard.

### Ø2 mm / 0.08" single cable probe options

VF71	4	OPTIFLEX 1300 C Guided Radar (TDR) level transmitter for heavy-duty and interface applications Ø2 mm (0.08") single cable – Standard (STD) / High Temperature (HT) / High Pressure (HP)
		Approval
	0	Without
	1	WHG (overflow protection)
	2	ATEX II 1 G Ex ia IIC T6 Ga + II 1 D Ex ia IIIC Da
	3	ATEX II 1/2 G Ex ia/d IIC T6 Ga/Gb + II 1/2 D Ex ia tb IIIC Da/Db
	4	ATEX II 1 G Ex ia IIC T6 Ga + II 1 D Ex ia IIIC Da + WHG
	5	ATEX II 1/2 G Ex ia/d IIC T6 Ga/Gb + II 1/2 D Ex ia tb IIIC Da/Db + WHG
	6	FM IS CL I/II/III DIV 1 GPS A–G + CL I zone 0 Ex ia IIC T6
	7	FM XP-AIS/DIP/NI CL I/II/III Div 1 GPS A–G + CL I zone 1 / zone 2 Ex d[ia] / Ex nA[ia] IIC T6
	A	ATEX II 3 G Ex nA IIC T6 Gc (Zone 2)
	B	INMETRO Ex ia IIC T6 Ga + Ex ia IIIC Da
	C	INMETRO Ex d[ia Ga] IIC T6 Ga/Gb + Ex tb[ia Da] IIIC Db
	E	NEPSI Ex ia IIC T6 + DIP A21/A20 ①
	F	NEPSI Ex d ia IIC T6 + DIP A21/A20 ①
	H	CSA IS CL I/II/III DIV 1 GPS A–G + CL I zone 0 Ex ia IIC T6
	K	CSA XP-AIS/DIP/NI CL I/II/III DIV 2 GPS A–G + CL I zone 1 / zone 2 Ex d / Ex nA IIC T6 ①
	M	IECEX Ex ia IIC T6 Ga + Ex ia IIIC Da
	N	IECEX Ex ia/d IIC T6 Ga/Gb + Ex ia tb IIIC Da/Db
	R	KGS Ex ia IIC T6 + Ex iaD 20
	S	KGS Ex d[ia] IIC T6 + Ex tD[iaD] A21/20
		Material of Process Connection and Probe / Pressure
	0	316L (1.4404) / 40 barg (580 psig)
	1	HASTELLOY® C-22® (2.4602) / 40 barg (580 psig)
	2	316L (1.4404) / 100 barg (1450 psig)
	3	HASTELLOY® C-22® (2.4602) / 100 barg (1450 psig)
	4	316L (1.4404) / HP 300 barg (4351 psig)
	5	HASTELLOY® C-22® (2.4602) / HP 300 barg (4351 psig)
		Probe type
	6	Single cable Ø2 mm (0.08") max. 35 m (114.83 ft) – liquid only
	G	Single cable Ø2 mm (0.08") for BM 26 ADVANCED
	K	Single cable Ø2 mm (0.08") for BM 26 F
		Probe end type
	5	Counterweight Ø14 mm × 100 mm (Ø0.55" × 3.94") (single cable Ø2 mm (0.08"))
	L	Centering counterweight Ø20 mm × 100 mm (Ø0.79") for BM 26 F + BM 26 ADVANCED
VF71	4	Order code (complete this code on the pages that follow)

					Feedthrough / Temperature / Sealing
				2	Standard / -40...+150°C (-40...+302°F) / FKM/FPM
				3	Standard / -20...+150°C (-4...+302°F) / Kalrez 6375
				4	Standard / -50...+150°C (-58...+302°F) / EPDM
				5	Standard / HT -40...+300°C (-40...+572°F) / FKM/FPM
				6	Standard / HT -20...+300°C (-4...+572°F) / Kalrez 6375
				7	Standard / HT -50...+250°C (-58...+482°F) / EPDM
					Process connection EN
				0	Without
				2	G 1A ISO 228
				4	DN25 PN40 Type B1 EN 1092-1
				6	DN50 PN40 Type B1 EN 1092-1
				7	DN80 PN40 Type B1 EN 1092-1
				8	DN100 PN16 Type B1 EN 1092-1
				A	DN100 PN40 Type B1 EN 1092-1
				B	DN150 PN16 Type B1 EN 1092-1
				C	DN150 PN40 Type B1 EN 1092-1
				D	DN50 PN63 Type B1 EN 1092-1
				E	DN80 PN63 Type B1 EN 1092-1
				F	DN100 PN63 Type B1 EN 1092-1
				H	G ½A ISO 228
				K	DN25 PN63/PN100 Type B1 EN 1092-1
				L	DN40 PN63/PN100 Type B1 EN 1092-1
				M	DN50 PN100 Type B1 EN 1092-1
				N	DN80 PN100 Type B1 EN 1092-1
				P	DN100 PN100 Type B1 EN 1092-1 2
				R	DN150 PN63 Type B1 EN 1092-1 2
				S	DN150 PN100 Type B1 EN 1092-1 2
				U	DN 200 PN 16 Type B1 EN 1092-1
				V	DN 200 PN 40 Type B1 EN 1092-1
VF71	4				Order code (complete this code on the pages that follow)







### All other probe types

VF71	4	OPTIFLEX 1300 C Guided Radar (TDR) level transmitter for heavy-duty and interface applications
		Approval
	0	Without
	1	WHG (overfill protection)
	2	ATEX II 1 G Ex ia IIC T6 Ga + II 1 D Ex ia IIIC Da
	3	ATEX II 1/2 G Ex ia/d IIC T6 Ga/Gb + II 1/2 D Ex ia tb IIIC Da/Db
	4	ATEX II 1 G Ex ia IIC T6 Ga + II 1 D Ex ia IIIC Da + WHG
	5	ATEX II 1/2 G Ex ia/d IIC T6 Ga/Gb + II 1/2 D Ex ia tb IIIC Da/Db + WHG
	6	FM IS CL I/II/III DIV 1 GPS A-G + CL I zone 0 Ex ia IIC T6
	7	FM XP-AIS/DIP/NI CL I/II/III Div 1 GPS A-G + CL I zone 1 / zone 2 Ex d[ia] / Ex nA[ia] IIC T6
	A	ATEX II 3 G Ex nA IIC T6 Gc (Zone 2)
	B	INMETRO Ex ia IIC T6 Ga + Ex ia IIIC Da
	C	INMETRO Ex d[ia Ga] IIC T6 Ga/Gb + Ex tb[ia Da] IIIC Db
	E	NEPSI Ex ia IIC T6 + DIP A21/A20 ☉
	F	NEPSI Ex d ia IIC T6 + DIP A21/A20 ☉
	H	CSA IS CL I/II/III DIV 1 GPS A-G + CL I zone 0 Ex ia IIC T6
	K	CSA XP-AIS/DIP/NI CL I/II/III DIV 2 GPS A-G + CL I zone 1 / zone 2 Ex d / Ex nA IIC T6 ☉
	M	IECEX Ex ia IIC T6 Ga + Ex ia IIIC Da
	N	IECEX Ex ia/d IIC T6 Ga/Gb + Ex ia tb IIIC Da/Db
	R	KGS Ex ia IIC T6 + Ex iaD 20
	S	KGS Ex d[ia] IIC T6 + Ex tD[iaD] A21/20
		Material of Process Connection and Probe / Pressure
	0	316L (1.4404) / 40 barg (580 psig)
	1	HASTELLOY® C-22® (2.4602) / 40 barg (580 psig) 2
	2	316L (1.4404) / 100 barg (1450 psig) 3
	3	HASTELLOY® C-22® (2.4602) / 100 barg (1450 psig) 2
VF71	4	Order code (complete this code on the pages that follow)

				Probe type
			0	Single rod Ø8 mm (0.32") max. 4 m (13.12 ft)
			1	Double rod Ø8 mm (0.32") max. 4 m (13.12 ft)
			2	Coaxial Ø22 mm (0.87") max. 6 m (19.69 ft)
			3	Single cable Ø4 mm (0.16") max. 35 m (114.83 ft)
			4	Single cable Ø8 mm (0.32") max. 35 m (114.83 ft)
			5	Double cable Ø4 mm (0.16") max. 8 m (26.25 ft)
			7	Single cable Ø4 mm (0.16") FEP coating 1 mm (0.04") max. 35 m (114.83 ft)
			8	Single rod Ø8 mm (0.32") + PVDF sheath max. 4 m (13.12 ft)
			A	No probe – (single rod Ø8 mm (0.32") max. 4 m (13.12 ft))
			B	No probe – (double rod Ø8 mm (0.32") max. 4 m (13.12 ft))
			C	No probe – (single cable Ø4 mm (0.16") max. 35 m (114.83 ft))
			D	No probe – (single cable Ø8 mm (0.32") max. 35 m (114.83 ft))
			E	No probe – (double cable Ø4 mm (0.16") max. 8 m (26.25 ft))
			H	Single cable Ø4 mm (0.16") for BM 26 ADVANCED
			L	Single cable Ø4 mm (0.16") for BM 26 F
			M	Single rod Ø8 mm (0.32") max. 6 m (19.69 ft) – segmented
			S	Coaxial Ø22 mm (0.87") max. 6 m (19.69 ft) – segmented
				Probe end type
			0	Without (rod and coaxial probes)
			1	Counterweight Ø12 mm × 100 mm (Ø0.47" × 3.94") (single cable Ø8 mm (0.32"))
			2	Counterweight Ø38 mm × 245 mm (Ø1.5" × 9.65") (single cable Ø8 mm (0.32"))
			3	Counterweight Ø20 mm × 100 mm (Ø0.79" × 3.94") (single cable Ø4 mm (0.16"))
			4	Counterweight Ø38 mm × 60 mm (Ø1.5" × 2.36") (double cable Ø4 mm (0.16"))
			A	Turnbuckle
			B	Chuck
			C	Threaded end
			D	Crimped end
			E	Open end
			L	Centering counterweight for BM 26 F + BM 26 ADVANCED
				Feedthrough / Temperature / Sealing
			0	Standard / -40...+200°C (-40...+392°F) / FKM/FPM
			1	Standard / -20...+200°C (-4...+392°F) / Kalrez 6375
			4	Standard / -50...+150°C (-58...+302°F) / EPDM 4
VF71	4			Order code (complete this code on the pages that follow)







