



OPTIWAVE 7300 C Technical Datasheet

Non-contact Radar (FMCW) Level Meter for liquids

- For liquid applications
- The only guarantee for measuring accurately in difficult conditions
- Antenna options (Drop, Hygienic, ...) designed for specific purposes



2.1 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.

VF70	4	OPTIFLEX 7300 C 24 GHz Non-contact Radar (FMCW) level meter for liquids
		Approval
	0	Without
	1	WHG (overflow protection)
	2	ATEX Ex ia IIC T3...T6 + DIP ☉
	3	ATEX Ex d[ia] IIC T3...T6 + DIP ☉
	4	ATEX Ex ia IIC T3...T6 + DIP + WHG ☉
	5	ATEX Ex d[ia] IIC T3...T6 + DIP + WHG ☉
	6	FM IS CL I/II/III, DIV 1, GPS A-G; CL I, Zone 0, AEx ia IIC T3...T6
	7	FM XP-IS/DIP CL I/II/III, DIV 1, GPS A-G; CL I, Zone 0, AEx d [ia] IIC T3...T6
	A	ATEX 3G Ex nA II T3...T6
	B	INMETRO Ex ia IIC T3...T6 + DIP ☉
	C	INMETRO Ex d ia IIC T3...T6 + DIP ☉
	E	NEPSI Ex ia IIC T3 ~ T6 + DIP ☉
	F	NEPSI Ex d ia IIC T3 ~ T6 + DIP ☉
	H	CSA IS CL I/II/III, DIV 1, GPS A-G; CL I, Zone 0, Ex ia IIC T3...T6
	K	CSA XP-IS/DIP CL I/II/III, DIV 2, GPS A-D, F, G; CL I, Zone 0, Ex d IIC T3...T6
	M	IECEX Ex ia IIC T2...T6 + DIP ☉
	N	IECEX Ex d ia IIC T2...T6 + DIP ☉
	R	KGS Ex ia IIC T3 – T6 + DIP ☉
	S	KGS Ex d[ia] IIC T3 – T6 + DIP ☉
		Material of Process Connection / Antenna type and material (pressure)
	0	316L (1.4404) / Horn 316L (40 barg / 580 psig) – Drop PTFE (40 barg / 580 psig) – Drop PP (16 barg / 232 psig) – Hygienic PEEK (10 barg / 145 psig)
	1	Hastelloy® C-22® (2.4602) / Horn HC22 (40 barg / 580 psig) 2
	2	316L (1.4404) / Horn 316 L (100 barg / 1450 psig)
	3	Hastelloy® C-22® (2.4602) / Horn HC22 (100 barg / 1450 psig) 2
VF70	4	Order code (complete this code on the pages that follow)

			Antenna type
		3	Horn DN80 (Ø75 mm / 2.95") – long
		4	Horn DN40 (Ø39 mm / 1.54") – long
		5	Horn DN50 (Ø43 mm / 1.69") – long
		6	Horn DN80 (Ø75 mm / 2.95") – long – with purging system
		7	Horn DN40 (Ø39 mm / 1.54") – long – with purging system
		8	Horn DN50 (Ø43 mm / 1.69") – long – with purging system
		F	Horn DN100 (Ø95 mm / 3.74") – long
		G	Horn DN100 (Ø95 mm / 3.74") – long – with purging system
		H	PEEK Hygienic antenna (FDA conform)
		L	Horn for BM26 W (Ø65.4 mm / 2.58")
		N	Horn for BM 26 ADVANCED – with purging system
		P	Drop PTFE DN80 (Ø75 mm / 2.95") – long / -50...+150°C (-58...+302°F)
		R	Drop PP DN150 (Ø144 mm / 5.67") – long / -40...+100°C (-40...+212°F)
		S	Drop PP DN80 (Ø75 mm / 2.95") – long / -40...+100°C (-40...+212°F)
		T	Sheet metal horn DN 200 (Ø190 mm / 7.48") – long – with purging system
		U	Sheet metal Horn DN80 (Ø75 mm / 2.95") – long
		V	Sheet metal horn DN100 (Ø95 mm / 3.74") – long
		W	Sheet metal horn DN80 (Ø75 mm / 2.95") – long – with purging system
		X	Sheet metal horn DN100 (Ø95 mm / 3.74") – long – with purging system
		Y	Sheet metal horn DN150 (Ø144 mm / 5.5") – long – with purging system
			Antenna extension
		0	Without
		1	Extension 105 mm (4.13")
		2	Extension 210 mm (8.27")
		3	Extension 315 mm (12.40")
		4	Extension 420 mm (16.54")
		5	Extension 525 mm (20.67")
		6	Extension 630 mm (24.80") 3
		7	Extension 735 mm (28.94") 3
		8	Extension 840 mm (33.07") 3
		A	Extension 105 mm (37.21") 3
		B	Extension 1050 mm (41.34") 3
			Flange plate protection
		P	Flange plate protection (PP) DN80, DN100, 3", 4", 80A, 100A 4
		R	Flange plate protection (PP) DN150, 6", 8" 4
		S	Flange plate protection (PTFE) DN80, DN100, 3", 4", 80A, 100A 4
		T	Flange plate protection (PTFE) DN150, 6", 8" 4
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					Feedthrough / Temperature / Sealing
					Non-Ex devices with a Drop antenna
				X	Standard / -40...+150°C (-40...+302°F) / FKM/FPM
				Y	Standard / -50...+150°C (-58...+302°F) / EPDM
					Other devices
				0	Standard / -40...+150°C (-40...+302°F) / FKM/FPM
				1	Standard / -20...+150°C (-4...+302°F) / Kalrez 6375
				2	Metaglas® / -30...+150°C (-22...302°F) / FKM/FPM
				3	Metaglas® / -20...+150°C (-4...+302°F) / Kalrez 6375
				4	Standard / -50...+150°C (-58...302°F) / EPDM
				5	Metaglas® / -30...+150°C (-22...+302°F) / EPDM
				A	Standard / -20...+150°C (-4...+302°F) / without – for Tri-Clamp, SMS, DIN 11851
				B	Standard / -20...+150°C (-4...+302°F) / EPDM – for Bio Control
				C	Standard / -20...+150°C (-4...+302°F) / FKM/FPM – for Bio Control
				F	Standard / -40...+200°C (-40...+392°F) / FKM/FPM with distance piece included
				G	Standard / -20...+200°C (-4...+392°F) / Kalrez 6375 with distance piece included
				H	Metaglas® / -30...+200°C (-22...+392°F) / FKM/FPM with distance piece included
				K	Metaglas® / -20...+200°C (-4...392°F) / Kalrez 6375 with distance piece included
					Process connection EN
				0	Without
				3	G 1½A ISO 228
				5	DN40 PN40 Form B1 EN 1092-1
				6	DN50 PN40 Form B1 EN 1092-1
				7	DN80 PN40 Form B1 EN 1092-1
				8	DN100 PN16 Form B1 EN 1092-1
				A	DN100 PN40 Form B1 EN 1092-1
				B	DN150 PN16 Form B1 EN 1092-1
				C	DN150 PN40 Form B1 EN 1092-1
				D	DN50 PN63 Form B1 EN 1092-1
				E	DN80 PN63 Form B1 EN 1092-1
				F	DN100 PN63 Form B1 EN 1092-1
				L	DN40 PN63/PN100 Form B1 EN 1092-1
				M	DN50 PN100 Form B1 EN 1092-1
				N	DN80 PN100 Form B1 EN 1092-1
				P	DN100 PN100 Form B1 EN 1092-1
				R	DN150 PN63 Form B1 EN 1092-1
				S	DN150 PN100 Form B1 EN 1092-1
				U	DN 200 PN 16 Form B1 EN 1092-1
				V	DN 200 PN 40 Form B1 EN 1092-1
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