



OPTIWAVE 5200 C/F Technical Datasheet

Radar (FMCW) Level Transmitter for liquids in storage and process applications

- Modular design of housing and antenna ensures suitability for a variety of mounting positions and applications
- Universal measurement device for liquids, pastes and slurries
- SIL2-compliant according to IEC 61508 for safety-related systems



5.1 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.

VF50	4	OPTIWAVE 5200 C/F 10 GHz Radar (FMCW) Level Transmitter for liquids in storage and process applications
		Converter version (Housing material – protection category)
	1	OPTIWAVE 5200 C: Compact version (Aluminium – IP66/67)
	2	OPTIWAVE 5200 C: Compact version (Stainless steel – IP66/67)
	3	OPTIWAVE 5200 F: Remote version (converter & antenna housing: Aluminium – IP66/67)
	4	OPTIWAVE 5200 F: Remote version (converter & antenna housing: Stainless steel – IP66/67)
		Approval ⊕
	0	Without
	1	ATEX II 1/2 G Ex ia IIC T6 Ga/Gb + II 1/2 D Ex ia IIIC Da/Db
	2	ATEX II 1/2 G Ex d ia IIC T6 Ga/Gb + II 1/2 D Ex ia tb IIIC Da/Db
	4	ATEX II 3 G Ex ic IIC T6 Gc + II 3 D Ex ic IIIC Dc (Zone 2 & 22)
	6	IECEX Ex ia IIC T6 Ga/Gb + Ex ia IIIC Da/Db
	7	IECEX Ex d ia IIC T6 Ga/Gb + Ex ia tb IIIC Da/Db
	8	IECEX Ex ic IIC T6 Gc + Ex ic IIIC Dc (Zone 2 & 22)
	A	cFMus IS CL I/II/III DIV 1 GPS A-G + CL I zone 0/20 Ex ia IIC/IIIC T6
	B	cFMus XP-AIS/DIP CL I/II/III DIV 1 GPS A-G (A not for Canada) + CL I zone 0/20 Ex d[ia]/tb[jia] IIC/IIIC T6 2
	C	cFMus NI CL I/II/III DIV 2 GPS A-G + CL I zone 2 Ex nA IIC T6
	L	NEPSI Ex ia IIC T6 Ga/Gb + DIP A20/A21 2
	M	NEPSI Ex d ia IIC T6 Ga/Gb + DIP A20/A21 2
	R	INMETRO Ex ia IIC T6 Ga/Gb + Ex ia IIIC Da/Db
	S	INMETRO Ex d ia IIC T6 Ga/Gb + Ex ia tb IIIC Da/Db
	T	INMETRO Ex ic IIC T6 Gc + Ex ic IIIC Dc (Zone 2 & 22)
		Other approval
	0	Without
	1	SIL 2 – only available for the OPTIWAVE 5200 C (compact version) with a 4...20 mA output
	4	CRN (Canadian Registration Number)
	5	CRN + SIL 2 – only available for the OPTIWAVE 5200 C (compact version) with a 4...20 mA output
	A	WHG – must be supplied with a calibration certificate
	B	EAC Russia
	C	EAC Belarus
	D	EAC Russia + SIL 2 – only available for the OPTIWAVE 5200 C (compact version) with a 4...20 mA output
	E	EAC Belarus + SIL 2 – only available for the OPTIWAVE 5200 C (compact version) with a 4...20 mA output
	K	EAC Kazakhstan
	L	EAC Kazakhstan + SIL 2 – only available for the OPTIWAVE 5200 C (compact version) with a 4...20 mA output
VF50	4	Order code (complete this code on the pages that follow)

				Process seal – Temperature / Pressure / Material / Remarks (higher flange temperature and process pressure on request)
				0 Without
				1 -40...+150°C (-40...+302°F) / -1...40 barg (-14.5...580 psig) / FKM/FPM / Metaglas® for Metallic Horn and Wave Guide
				5 -50...+130°C (-58...+266°F) / -1...40 barg (-14.5...580 psig) / EPDM / Metaglas® for Metallic Horn and Wave Guide
				6 -20...+150°C (-4...+302°F) / -1...40 barg (-14.5...580 psig) / Kalrez® 6375 / Metaglas® for Metallic Horn and Wave Guide
				A -60...+130°C (-76...+266°F) / -1...40 barg (-14.5...580 psig) / PFA / Metaglas® for Metallic Horn and Wave Guide
				D -40...+200°C (-40...+392°F) / -1...40 barg (-14.5...580 psig) / FKM/FPM / Metaglas® for Metallic Horn and Wave Guide with distance piece
				K -20...+250°C (-4...+482°F) / -1...40 barg (-14.5...580 psig) / Kalrez® 6375 / Metaglas® for Metallic Horn and Wave Guide with distance piece
				R -20...+100°C (-4...+212°F) / -1...16 barg (-14.5...232 psig) / PP / for PP Wave Horn with G and NPT threaded connections
				T -50...+150°C (-58...+302°F) / -1...40 barg (-14.5...580 psig) / PTFE / for PTFE Wave Horn with Type B1 (EN 1092-1) or Raised Face (ASME B16.5) flange facing
				Antenna
				0 Without
				1 Metallic Horn (sheet metal) DN80 (3") L= 110 mm (4.33") / 316L ③
				2 Metallic Horn (sheet metal) DN100 (4") L= 148 mm (5.83") / 316L ③
				3 Metallic Horn (sheet metal) DN150 (6") L= 223 mm (8.78") / 316L
				4 Metallic Horn (sheet metal) DN 200 (8") L= 335 mm (13.19") / 316L
				5 Metallic Horn (machined) DN65 (2.5") L= 86 mm (3.38") for RC W5200 4
				G Wave Horn Ø43 mm (1.69") L= 322 mm (12.68") / PP
				H Wave Horn Ø43 mm (1.69") L= 296 mm (11.65") / PTFE
				L Metallic Wave Guide Ø30 mm (1.18") ≤1 m (3.28 ft) / 316L
				M Metallic Wave Guide Ø30 mm (1.18") ≤1.5 m (4.92 ft) / 316L
				N Metallic Wave Guide Ø30 mm (1.18") ≤2 m (6.56 ft) / 316L
				P Metallic Wave Guide Ø30 mm (1.2") ≤2.5 m (8.20 ft) / 316L
				R Metallic Wave Guide Ø30 mm (1.18") ≤3 m (9.84 ft) / 316L
				S Metallic Wave Guide Ø30 mm (1.18") ≤3.5 m (11.48 ft) / 316L
				T Metallic Wave Guide Ø30 mm (1.18") ≤4 m (13.12 ft) / 316L
				U Metallic Wave Guide Ø30 mm (1.18") ≤4.5 m (14.76 ft) / 316L
				V Metallic Wave Guide Ø30 mm (1.18") ≤5 m (16.40 ft) / 316L
				W Metallic Wave Guide Ø30 mm (1.18") ≤5.5 m (18.05 ft) / 316L
				X Metallic Wave Guide Ø30 mm (1.18") ≤6 m (19.69 ft) / 316L
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