



# RADAR TRANSMITTERS

## BLISSFLEX 1100 SELECTION GUIDE

The characters of the order code have been described below

BA25	4	BLISSFLEX 1100 C 2-wire loop-powered 4...20 mA Guided Radar (TDR) level meter: -50...+100°C and -1...16 barg / -58...212°F and -14.5...232 psig			
		Housing material			
		1	Aluminium		
			Probe type / probe length (probe material)		
		3	Single cable Ø2 mm / 0.08"; length 20 m / 65.6 ft (St. steel 316/1.4401)		
		6	Single cable Ø4 mm / 0.15"; length 10 m / 32.8 ft (St. steel 316/1.4401)		
		A	Coaxial; 1 segment; length <730 mm / 29" (St. steel 316L/1.4404)		
		B	Coaxial; 2 segments; length <1397 mm / 55" (St. steel 316L/1.4404)		
		C	Coaxial; 3 segments; length <2065 mm / 81" (St. steel 316L/1.4404)		
		D	Coaxial; 4 segments; length <2732 mm / 108" (St. steel 316L/1.4404)		
		E	Coaxial; 5 segments; length <3400 mm / 134" (St. steel 316L/1.4404)		
		F	Coaxial; 6 segments; length <4067 mm / 160" (St. steel 316L/1.4404)		
			Process connection		
		2	G ¾A (ISO 228)		
		3	G 1A (ISO 228)		
		5	¾ NPT (ASME B1.20.1)		
		6	1 NPT (ASME B1.20.1)		
			Cable entry / cable gland		
		1	M20 × 1.5 / plastic		
		2	½ NPT (Brass) / without		
			Display		
		1	Blind version		
		2	With an integrated display		
			Display language (English is supplied with all devices)		
		0	Without (for the blind version of the device)		
		1	English		
		2	German		
		3	French		
		4	Italian		
		5	Spanish		
		6	Portuguese		
		7	Japanese		
		8	Chinese (Mandarin)		
		A	Russian		
BA25	4				Order code



## BLISSFLEX 2200 SELECTION GUIDE

The characters of the order code have been described below

BA20	4	BLISSFLEX 2200 C/F Guided Radar (TDR) level transmitter Converter version (housing material / ingress protection)
	1	BLISSFLEX 2200 C: Compact version (aluminium – IP66/67)
	2	BLISSFLEX 2200 C: Compact version (stainless steel – IP66/67)
	3	BLISSFLEX 2200 F: Remote version (converter and probe housing: aluminium – IP66/67)
	4	BLISSFLEX 2200 F: Remote version (converter and probe housing: stainless steel – IP66/67)
	5	BLISSFLEX 2200 F: Remote version (converter housing: aluminium – IP66/67 and probe housing: stainless steel – IP66/67)
		Approval 1
	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 and 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 and 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 CAN) + CL I zone 0/20 Ex d[ia]/tb[ia] IIC/IIIC T6
	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 and 22)
		Other approval
	0	Without
	1	SIL2 – only available for the compact (C) version with the 4...20 mA output option
	4	CRN (Canadian Registration Number)
	5	CRN + SIL2 – only available for the compact (C) version with the 4...20 mA output option
	A	WHG (overfill protection approval – only with calibration certificate)
	B	EAC Russia
	C	EAC Belarus
	D	EAC Russia + SIL 2 – only available for the compact (C) version with the 4...20 mA output option
	E	EAC Belarus + SIL 2 – only available for the compact (C) version with the 4...20 mA output option
	K	EAC Kazakhstan
	L	EAC Kazakhstan + SIL 2 – only available for the compact (C) version with the 4...20 mA output option
BA20	4	Order code (complete this code on the pages that follow)



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## BLISSFLEX 2200 SELECTION GUIDE

Order Code Continued...

			Process seal (temperature / pressure / material / notes)
		0	Without
		1	-40...+150°C (-40...+302°F) / -1...40 barg (-14.5...580 psig) / FKM/FPM (Viton) – for all probes
		2	-20...+150°C (-4...+302°F) / -1...40 barg (-14.5...580 psig) / Kalrez® 6375 – for all probes
		3	-50...+150°C (-58...+302°F) / -1...40 barg (-14.5...580 psig) / EPDM – for all probes
		6	-40...+300°C (-40...+572°F) / -1...40 barg (-14.5...580 psig) / FKM/FPM (Viton) – only for the high-temperature (HT) version of the Ø2 mm (0.08") single cable probe
		7	-20...+300°C (-4...+572°F) / -1...40 barg (-14.5...580 psig) / Kalrez® 6375 – only for the high-temperature (HT) version of the Ø2 mm (0.08") single cable probe
		8	-50...+250°C (-58...+482°F) / -1...40 barg (-14.5...580 psig) / EPDM – only for the high-temperature (HT) version of the Ø2 mm (0.08") single cable probe
			Probe (probe type / material / measuring range)
		0	Without
			For liquids only
		2	Single rod – Ø8 mm (0.32") segmented / 316L – 1.4404 / 1...6 m (3.28...19.69 ft)
		3	Single cable – Ø2 mm (0.08") / 316 – 1.4401 / 1...40 m (3.28...131.23 ft)
		6	Double rod – 2×Ø8 mm (0.32") / 316L – 1.4404 / 1...4 m (3.28...13.12 ft)
		7	Double cable – 2×Ø4 mm (0.16") / 316 – 1.4401 / 1...28 m (3.28...91.86 ft)
		D	Single cable – Ø2 mm (0.08") / HASTELLOY® C-22® / 1...40 m (3.28...131.23 ft)
		A	Coaxial – Ø22 mm (0.87") / 316L – 1.4404 / 0.6...6 m (1.97...19.69 ft)
		B	Coaxial – Ø22 mm (0.87") segmented / 316L – 1.4404 / 0.6...6 m (1.97...19.69 ft)
		E	Coaxial – Ø22 mm (0.87") / HASTELLOY® C-22® / 0.6...6 m (1.97...19.69 ft)
		P	Single rod – Ø8 mm (0.32") / PVDF sheath Ø16 mm (0.64") – not for cFMus – IIB only / 1...4 m (3.28...13.12 ft)
		T	Single cable – Ø4 mm (0.16") for BM 26 ADVANCED / 316L – 1.4404 / 1...6 m (3.28...19.69 ft)
		V	Single cable – Ø4 mm (0.16") for BM 26 F / 316L – 1.4404 / 1...6 m (3.28...19.69 ft)
			For liquids and solids
		1	Single rod – Ø8 mm (0.32") / 316L – 1.4404 / 1...6 m (3.28...19.69 ft)
		4	Single cable – Ø4 mm (0.16") / 316 – 1.4401 / liquids: 1...40 m (3.28...131.23 ft); solids: 1...20 m (3.28...65.92 ft)
			For solids only
		5	Single cable – Ø8 mm (0.32") / 316 – 1.4401 / 1...40 m (3.28...65.92 ft)
			Probe connection without probe
		K	Probe connection (316L – 1.4404) for single rod or single cable probe – probe not included – not available for single cable Ø2 mm (0.08")
		L	Probe connection (316L – 1.4404) for double rod or double cable probe – probe not included
BA20	4		Order code (complete this code on the pages that follow)



## BLISSFLEX 2200 SELECTION GUIDE

					Probe end (probe end type / material / probe)		
				0	Without		
				1	Counterweight Ø14 × 100 mm (0.55 × 3.94") / 316L – 1.4404 / Single cable – Ø2 mm (0.08")		
				F	Counterweight Ø14 × 100 mm (0.55 × 3.94") / HASTELLOY® C-22® / Single cable – Ø2 mm (0.08")		
				2	Counterweight Ø20 × 100 mm (0.79 × 3.94") / 316L – 1.4404 / Single cable – Ø4 mm (0.16")		
				3	Counterweight Ø12 × 100 mm (0.47 × 3.94") / 316L – 1.4404 / Single cable – Ø8 mm (0.32")		
				4	Counterweight Ø38 × 245 mm (1.50 × 9.65") / 316L – 1.4404 / Single cable – Ø8 mm (0.32")		
				5	Counterweight Ø38 × 60 mm (1.50 × 2.36") / 316L – 1.4404 / Double cable – Ø4 mm (0.16")		
				8	Chuck / 316L – 1.4404 / Single cable – Ø4 mm (0.16")		
				B	Crimped end / 316L – 1.4404 / Single cable – Ø4 mm (0.16")		
				D	Open end / 316L – 1.4404 / Single cable – Ø4 mm (0.16") and Ø8 mm (0.32")		
				7	Turnbuckle / 316L – 1.4404 / Single/double cable – Ø4 mm (0.16")		
				A	Threaded end / 316L – 1.4404 / Single/double cable – Ø4 mm (0.16")		
				L	Centering counterweight / 316L – 1.4404 / Single cable – Ø4 mm (0.16") – for BM 26 F and BM 26 ADVANCED without float		
					Process connection (size / pressure rating / flange finish)		
				0	0	0	Without
							Threaded – ISO 228
				C	P	0	G ½ 3
				D	P	0	G ¾ A 4
				E	P	0	G 1 A 4
				G	P	0	G 1½ A
							Threaded – ASME B1.20.1
				C	B	0	½ NPTF – B1.20.3 (Dryseal) 3
				D	A	0	¾ NPT 4
				E	A	0	1 NPT 4
				G	A	0	1½ NPT
							EN 1092-1 Flanges 5
				E	D	1	DN25 PN10 – Type B1 6
				E	E	1	DN25 PN16 – Type B1 6
				E	F	1	DN25 PN25 – Type B1 6
				E	G	1	DN25 PN40 – Type B1 6
				G	D	1	DN40 PN10 – Type B1
				G	E	1	DN40 PN16 – Type B1
				G	F	1	DN40 PN25 – Type B1
				G	G	1	DN40 PN40 – Type B1 / BM 26 ADVANCED
				H	D	1	DN50 PN10 – Type B1
				H	E	1	DN50 PN16 – Type B1
				H	F	1	DN50 PN25 – Type B1
				H	G	1	DN50 PN40 – Type B1
BA20	4						Order code (complete this code on the pages that follow)



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								L	D	1	DN80 PN10 – Type B1
								L	E	1	DN80 PN16 – Type B1
								L	F	1	DN80 PN25 – Type B1
								L	G	1	DN80 PN40 – Type B1
								M	D	1	DN100 PN10 – Type B1
								M	E	1	DN100 PN16 – Type B1
								M	F	1	DN100 PN25 – Type B1
								M	G	1	DN100 PN40 – Type B1
								P	D	1	DN150 PN10 – Type B1
								P	E	1	DN150 PN16 – Type B1
								P	F	1	DN150 PN25 – Type B1
								P	G	1	DN150 PN40 – Type B1
								R	E	1	DN200 PN16 – Type B1
								R	G	1	DN200 PN40 – Type B1 (for non-Ex devices only)
											ASME B16.5 / ANSI Flanges 7
							E	1	A		1" 150 lb RF 6
							E	2	A		1" 300 lb RF 6
							G	1	A		1½" 150 lb RF
							G	2	A		1½" 300 lb RF
							H	1	A		2" 150 lb RF
							H	2	A		2" 300 lb RF / BM 26 F
							L	1	A		3" 150 lb RF
							L	2	A		3" 300 lb RF
							M	1	A		4" 150 lb RF
							M	2	A		4" 300 lb RF
							P	1	A		6" 150 lb RF
							P	2	A		6" 300 lb RF (for non-Ex devices only)
							R	1	A		8" 150 lb RF
							R	2	A		8" 300 lb RF (for non-Ex devices only)
											JIS B2220 Flanges
							G	U	P		40A JIS 10K RF
							H	U	P		50A JIS 10K RF
							L	U	P		80A JIS 10K RF
							M	U	P		100A JIS 10K RF
							P	U	P		150A JIS 10K RF
							R	U	P		200A JIS 10K RF
											Alternative flange faces
								2	Type B2, EN 1092-1 (surface roughness must be specified in the order)		
								3	Type C, EN 1092-1 (Tongue)		
								4	Type D, EN 1092-1 (Groove)		
								5	Type E, EN 1092-1 (Spigot)		
								6	Type F, EN 1092-1 (Recess)		
VF20	4	Order code (complete this code on the pages that follow)									



**BLISSFLEX 2200  
SELECTION GUIDE**

Order Code Continued...

											B	FF, ASME B16.5 (Flat face)
											M	RJ, ASME B16.5 (Ring joint)
											C	LG, ASME B16.5 (Large groove)
											D	LF, ASME B16.5 (Large female)
											E	LT, ASME B16.5 (Large tongue)
											F	LM, ASME B16.5 (Large male)
											G	SG, ASME B16.5 (Small groove)
											H	SF, ASME B16.5 (Small female)
											K	ST, ASME B16.5 (Small tongue)
											L	SM, ASME B16.5 (Small male)
												Output
											1	2-wire / 4...20 mA passive HART
											2	2-wire / FOUNDATION™ fieldbus
											3	2-wire / PROFIBUS PA
												Cable entry / cable gland
											1	M20×1.5 / Without
											2	M20×1.5 / Plastic
											3	M20×1.5 / Brass
											4	M20×1.5 / Stainless steel
											A	½ NPT (brass) / Without
											B	½ NPT (stainless steel) / Without
												Housing (orientation / display / weather protection)
											0	Without
											1	Horizontal / No display / Without (for the compact version only)
											2	Horizontal / Display on side / Without (for the compact version only)
											3	Horizontal / No display / With (for the compact version only)
											4	Horizontal / Display on side / With (for the compact version only)
											A	Vertical / No display / Without
											B	Vertical / Display on top / Without
											C	Vertical / Display on side / Without (not available for Ex d ia / XP-approved devices)
											D	Vertical / No display / With
											E	Vertical / Display on top / With
											F	Vertical / Display on side / With (not available for Ex d ia / XP-approved devices)
VF20	4											Order code (complete this code on the pages that follow)





**BLISSFLEX 2200  
SELECTION GUIDE**

Order Code Continued...

													Calibration certificate	
													0	Without – for accuracy $\pm 10$ mm ( $\pm 0.39$ " ) up to 10 m (32.81 ft)
													1	Calibration certificate 2 points – for accuracy $\pm 3$ mm ( $\pm 0.12$ " ) up to 10 m (32.81 ft) (for coaxial >600 mm (23.62" ) – other probes: 1st point >500 mm (19.69" ))
													2	Calibration certificate 5 points – for accuracy $\pm 3$ mm ( $\pm 0.12$ " ) up to 10 m (32.81 ft) (for coaxial >1000 mm (39.37" ) – other probes: 1st point >500 mm (19.69" ))
													3	Calibration certificate 5 points, customer specific – for accuracy $\pm 3$ mm ( $\pm 0.12$ " ) up to 10 m (32.81 ft) (not for coaxial – calibration points to be given by the customer: 1st point >500 mm (19.69" ))
													Drawing/TAG Number	
													0	Without
													2	Tag No. on stainless steel plate (18 characters max.)
													Extra option	
													0	Without
													1 NACE design (MR0175 / MR0103 / ISO 15156)	
VF20	4											0	Order code	

- 1 For more data, refer to the Technical data section (Approvals and certification)
- 2 DIP= Dust Ignition Proof
- 3 For  $\varnothing 2$  mm / 0.08" single cable probes only
- 4 Do not use with double rod and double cable probes
- 5 Other flange faces are available. Refer to your local supplier for more data.
- 6 Do not use with double rod, double cable and coaxial probes
- 7 Flanges with RF faces have a slip on-type design with an anti-blowout feature. Other flange faces are available. Refer to your local supplier for more data.





# RADAR TRANSMITTERS

## BLISSFLEX 1010 SELECTION GUIDE

Make a selection from each column to get the full order code.

BA01	4	BLISSWAVE 1010 Non-Contact Radar (FMCW) Level Transmitter
		Converter version (Housing material – protection class)
	1	BLISSWAVE 1010: Compact version (Aluminium – IP66 / IP67)
	2	BLISSWAVE 1010: Compact version (Stainless steel – IP66 / IP67)
		Approval <sup>①</sup>
	0	Without
	1	ATEX II 1/2 G Ex ia IIC Tx Ga/Gb + II 2 D Ex ia IIIC T120°C <sup>②</sup>
	2	ATEX II 1/2 G Ex db IIC T6...T4 Ga/Gb + II 2 D Ex tb IIIC T120°C Db <sup>③</sup>
	6	IECEX Ex ia IIC Tx Ga/Gb + Ex ia IIIC T120°C Db <sup>④</sup>
	7	IECEX Ex db IIC T6...T4 Ga/Gb + Ex tb IIIC T120°C Db <sup>⑤</sup>
		Other approval
	0	Without
	B	EAC Russia <sup>⑥</sup>
	C	EAC Belarus <sup>⑥</sup>
	K	EAC Kazakhstan <sup>⑥</sup>
		Process seal – Temperature / Pressure / Material / Remarks (material to be checked by the customer)
	0	Without
	1	-40°C...+100°C (-40°F...+212°F) / -1...16 barg (-14.5...232 psig) / FKM/FPM / aluminium housing and Metapeek process seal
	2	-40°C...+100°C (-40°F...+212°F) / -1...16 barg (-14.5...232 psig) / EPDM / aluminium housing and Metapeek process seal
	3	-20°C...+100°C (-4°F...+212°F) / -1...16 barg (-14.5...232 psig) / Kalrez <sup>®</sup> 6375 / aluminium housing and Metapeek process seal
	5	-40°C...+150°C (-40°F...+302°F) / -1...40 barg (-14.5...580 psig) / FKM/FPM / aluminium housing, Metaglas <sup>®</sup> process seal and distance piece
	6	-40°C...+150°C (-40°F...+302°F) / -1...40 barg (-14.5...580 psig) / EPDM / aluminium housing, Metaglas <sup>®</sup> process seal and distance piece
	7	-20°C...+150°C (-4°F...+302°F) / -1...40 barg (-14.5...580 psig) / Kalrez <sup>®</sup> 6375 / aluminium housing, Metaglas <sup>®</sup> process seal and distance piece
	A	-40°C...+120°C (-40°F...+248°F) / -1...40 barg (-14.5...580 psig) / FKM/FPM / stainless steel housing and Metaglas <sup>®</sup> process seal
	B	-40°C...+120°C (-40°F...+248°F) / -1...40 barg (-14.5...580 psig) / EPDM / stainless steel housing and Metaglas <sup>®</sup> process seal
	C	-20°C...+120°C (-4°F...+248°F) / -1...40 barg (-14.5...580 psig) / Kalrez <sup>®</sup> 6375 / stainless steel housing and Metaglas <sup>®</sup> process seal
BA01	4	Order code (complete this code on the pages that follow)



## BLISSWAVE 1010 SELECTION GUIDE

Order Code Continued...

												Antenna: Matching element / Material											
												0 Without											
												1 Metallic Horn for pipe Ø42.4 × 2 / 316L											
												0 0 0 0 Output											
												1 2-wire / 4...20mA passive HART											
												Cable entry / Cable gland											
												1 M20×1.5 / Without											
												2 M20×1.5 / Plastic											
												3 M20×1.5 / Nickel-plated brass											
												4 M20×1.5 / Stainless steel											
												A ½ NPT (nickel-plated brass) / Without											
												B ½ NPT (stainless steel) / Without											
												Housing (Orientation / Display / Weather protection)											
												A Vertical / Without / Without											
												D Vertical / Without / With											
												0 Version											
												0 (RAL 9006 / RAL 5005)											
												6 USA (FCC)											
												A KMIC L (for liquid applications)											
												0 0 0 Calibration certificate											
												0 Without											
												1 Calibration certificate 2 factory default points for accuracy ±5 mm (0.2")											
												TAG Number											
												0 Without											
												2 Tag No. on stainless steel plate (18 characters max.)											
												Other constructions											
												0 Without											
												1 NACE design (MR 0175 / MR 0103 / ISO 15156)											
BA01		4		0		0		0		0		1		0		0		0		0		Order code	

- ① For more data, refer to the Technical data section (Approvals and certification)
- ② The dust approval is only applicable to the stainless steel housing. The bypass chamber or BM MLG must be approved for ATEX applications.
- ③ For the stainless steel housing only. The bypass chamber or BM MLG must be approved for ATEX applications.
- ④ The dust approval is only applicable to the stainless steel housing.
- ⑤ For the stainless steel housing only
- ⑥ Pending



# RADAR TRANSMITTERS

## BLISSWAVE 5200 SELECTION GUIDE

Make a selection from each column to get the full order code.

BA50	4	BLISSWAVE 5200 C/F Non-Contact Radar (FMCW) Level Meter
		Converter / Version (Housing material)
	0	Without
	1	BLISSWAVE 5200 C / Compact (Aluminium housing)
	2	BLISSWAVE 5200 C / Compact (Stainless Steel housing)
	3	BLISSWAVE 5200 F / Sensor (Aluminium housing) with Remote electronic (Aluminium housing) ①
	4	BLISSWAVE 5200 F / Sensor (Stainless Steel housing) with Remote electronic (Stainless Steel housing) ①
	5	BLISSWAVE 5200 F / Sensor (Stainless Steel housing) with Remote electronic (Aluminium housing) ①
		Approval ②
	0	Without
	1	ATEX Ex ia IIC T2...T6 + DIP ③
	2	ATEX Ex d ia IIC T2...T6 + DIP ③
	4	ATEX Ex ic IIC T2...T6 + DIP (Zone 2 and 22) ③
	6	IECEX Ex ia IIC T2...T6 + DIP ③
	7	IECEX Ex d ia IIC T2...T6 + DIP ③
	8	IECEX Ex ic IIC T2...T6 + DIP (Zone 2 and 22) ③
	A	cFMus IS Cl. I/II/III Div. 1 Gr. A-G; Cl. I Zone 0/20, Ex ia IIC/IIIC T2...T6 ①
	B	cFMus IS-XP/DIP Cl. I/II/III Div. 1, Gr. A-G (A not for Canada); Cl. I Zone 0/20, Ex d/tb IIC/IIIC T2...T6 ①
	C	cFMus NI Cl. I/II/III Div. 2, Gr. A-G; Cl. I Zone 2, Ex nA IIC T2...T6 ①
	L	NEPSI Ex ia IIC T2...T6 + DIP ③
	M	NEPSI Ex d ia IIC T2...T6 + DIP ③
		Other approval
	0	Without
	1	SIL2 (for the compact version (C) with a 4...20 mA output only)
	4	CRN (Canadian Registration Number)
	5	CRN + SIL2 (for the compact version (C) with a 4...20 mA output only)
BA50	4	Order code (complete this code on the pages that follow)



## BLISSWAVE 5200 SELECTION GUIDE

Order Code Continued...

		Pressure / Temperature / Sealing (higher flange temperature and process pressure on request)
		0 Without
		1 40 bar / -40°C...+150°C (-40°F...+302°F) / FKM, FPM - for the Metallic Horn antenna and Wave Guide
		5 40 bar / -50°C...+130°C (-58°F...+266°F) / EPDM - for the Metallic Horn antenna and Wave Guide
		6 40 bar / -20°C...+150°C (-4°F...+302°F) / Kalrez 6375 - for the Metallic Horn antenna and Wave Guide
		A 40 bar / -60°C...+130°C (-76°F...+266°F) / PFA - for the Metallic Horn antenna and Wave Guide
		D 40 bar / -40°C...+200°C (-40°F...+392°F) / FKM (Viton) - for the Metallic Horn antenna and Wave Guide
		K 40 bar / -20°C...+250°C (-4°F...+482°F) / Kalrez 6375 - for the Metallic Horn antenna and Wave Guide
		R 16 bar / -20°C...+100°C (-4°F...+212°F) / PP - for the PP Wave Horn antenna
		T 40 bar / -50°C...+150°C (-58°F...+302°F) / PTFE - for the PTFE Wave Horn antenna
		Material and Antenna
		0 Without
		1 316L / Metallic horn (sheet metal) DN80 (3") L = 110 mm (4.3")
		2 316L / Metallic horn (sheet metal) DN100 (4") L = 148 mm (5.8")
		3 316L / Metallic horn (sheet metal) DN150 (6") L = 223 mm (8.8")
		4 316L / Metallic horn (sheet metal) DN200 (8") L = 335 mm (13.2")
		G PP / Wave Horn Ø43 mm (1.7"), maximum socket length 200 mm / 7.9"
		H PTFE / Wave Horn Ø43 mm (1.7"), maximum nozzle length 200 mm / 7.9"
		L 316L / Metallic wave guide Ø30 mm (1.2") ≤1 m (3.28 ft)
		M 316L / Metallic wave guide Ø30 mm (1.2") ≤1.5 m (4.92 ft)
		N 316L / Metallic wave guide Ø30 mm (1.2") ≤2 m (6.56 ft)
		P 316L / Metallic wave guide Ø30 mm (1.2") ≤2.5 m (8.2 ft)
		R 316L / Metallic wave guide Ø30 mm (1.2") ≤3 m (9.84 ft)
		S 316L / Metallic wave guide Ø30 mm (1.2") ≤3.5 m (11.48 ft)
		T 316L / Metallic wave guide Ø30 mm (1.2") ≤4 m (13.12 ft)
		U 316L / Metallic wave guide Ø30 mm (1.2") ≤4.5 m (14.76 ft)
		V 316L / Metallic wave guide Ø30 mm (1.2") ≤5 m (16.4 ft)
		W 316L / Metallic wave guide Ø30 mm (1.2") ≤5.5 m (18.04 ft)
		X 316L / Metallic wave guide Ø30 mm (1.2") ≤6 m (19.68 ft)
BA50	4	Order code (complete this code on the pages that follow)



# RADAR TRANSMITTERS

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										Material and Antenna extension
										0 Without
										6 PTFE, antenna extension for maximum nozzle length 300 mm / 11.8" 4
										7 PTFE, antenna extension for maximum nozzle length 400 mm / 15.7" 4
										8 PTFE, antenna extension for maximum nozzle length 500 mm / 19.7" 4
										E 316L / 100 mm (4") for the Metallic Horn antenna option only 4
										F 316L / 200 mm (8") for the Metallic Horn antenna option only 4
										G 316L / 300 mm (12") for the Metallic Horn antenna option only 4
										H 316L / 400 mm (16") for the Metallic Horn antenna option only 4
										K 316L / 500 mm (20") for the Metallic Horn antenna option only 4
										R 316L / 1000 mm (40") for the Metallic Horn antenna option only 4
										W 316L / "S" extension 4
										X 316L / "L" (right angle) extension 4
										Process connection: Size / Pressure rating / Flange finish
										0 0 0 Without
										Threaded - ISO 228
										G P 0 G 1½ 5
										Threaded - ASME B1.20.1
										G A 0 1½ NPT 5
										EN / DIN Flanges - EN 1092-1 6
										H E 1 DN50 PN16 - Form B1 flange 7
										H G 1 DN50 PN40 - Form B1 flange 7
										L E 1 DN80 PN16 - Form B1 flange
										L G 1 DN80 PN40 - Form B1 flange
										M E 1 DN100 PN16 - Form B1 flange
										M G 1 DN100 PN40 - Form B1 flange
										P E 1 DN150 PN16 - Form B1 flange
										P G 1 DN150 PN40 - Form B1 flange
										R E 1 DN200 PN16 - Form B1 flange 8
										R G 1 DN200 PN40 - Form B1 flange 8
										ASME B16.5 / ANSI Flanges 6
										H 1 A 2" 150 lb RF 7
										H 2 A 2" 300 lb RF 7
										L 1 A 3" 150 lb RF
										L 2 A 3" 300 lb RF
										M 1 A 4" 150 lb RF
										M 2 A 4" 300 lb RF
										P 1 A 6" 150 lb RF
										P 2 A 6" 300 lb RF
										R 1 A 8" 150 lb RF 8
										R 2 A 8" 300 lb RF 8
BA50	4									Order code (complete this code on the pages that follow)



## BLISSWAVE 5200 SELECTION GUIDE

Order Code Continued...

											JIS B2220 Flanges
											H U P 10K 50A RF ⑦
											L U P 10K 80A RF
											M U P 10K 100A RF
											P U P 10K 150A RF
											R U P 10K 200A RF ⑧
											Alternative flange faces
											0 Without
											2 Form B2, EN 1092-1 (surface roughness must be specified in the order)
											3 Form C, EN 1092-1 (Tongue)
											4 Form D, EN 1092-1 (Groove)
											5 Form E, EN 1092-1 (Male)
											6 Form F, EN 1092-1 (Female)
											B FF, ASME B16.5 (Flat face)
											Output
											1 2-wire / 4...20mA passive HART
											A 2-wire / FOUNDATION™ fieldbus (for the compact version only)
											B 2-wire / PROFIBUS PA (for the compact version only)
											Cable entry / Cable gland
											1 M20×1.5 / without
											2 M20×1.5 / Plastic (Non-Ex: black; Ex i: blue)
											3 M20×1.5 / Brass
											4 M20×1.5 / Stainless Steel
											A ½ NPT (Brass) / without
											B ½ NPT (Stainless Steel) / without
											Housing option / Display
											1 Horizontal housing / No display (for the compact version only)
											2 Horizontal housing / Display (for the compact version only)
											3 Horizontal housing / No display + Weather protection (for the compact version only)
											4 Horizontal housing / Display + Weather protection (for the compact version only)
											A Vertical housing / No display
											B Vertical housing / Display top
											C Vertical housing / Display side (not available for Ex d ia / XP-approved devices)
											D Vertical housing / No display + Weather protection
											E Vertical housing / Display top + Weather protection
											F Vertical housing / Display side + Weather protection (not available for Ex d ia / XP-approved devices)
BA50	4										Order code (complete this code on the pages that follow)



# RADAR TRANSMITTERS

## BLISSWAVE 5200 SELECTION GUIDE

Order Code Continued...

																					Display language	
																					0	Without
																					1	English
																					2	German
																					3	French
																					4	Italian
																					5	Spanish
																					6	Portuguese
																					7	Japanese
																					8	Chinese (Mandarin)
																					A	Russian
																						Version
																					0	Standard orders and orders for solid applications in China
																					6	Orders with FCC radio approval (FCC Part 15 and RSS-210)
																					A	Orders for liquid applications in China
																						0 Remote option
																					0	Without
																					6	Signal cable 10m / Grey (std) or Blue (Ex) (Remote version only)
																						7 Signal cable 25m / Grey (std) or Blue (Ex) (Remote version only)
																					8	Signal cable 50m / Grey (std) or Blue (Ex) (Remote version only)
																					A	Signal cable 75m / Grey (std) or Blue (Ex) (Remote version only)
																					B	Signal cable 100m / Grey (std) or Blue (Ex) (Remote version only)
																						Adaptor
																						0 Without
																					1	Adaptor for BM70x flange system
																						Calibration certificate
																						0 Without
																					1	Calibration certificate $\pm 5$ mm 2 points
																						TAG Number
																						0 Without
																					2	Tag No. stainless steel plate (16 characters max.)
BA50	4																				Order code (complete this code on the pages that follow)	



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SELECTION GUIDE**

Order Code Continued...

														Extra option		
														0	Without	
														1	NACE design (MR0175 / MR0103 / ISO 15156)	
														3	Heating / Cooling <sup>⑨</sup>	
														5	Purging <sup>⑨</sup>	
														6	Purging + Heating / Cooling <sup>⑨</sup>	
BA50	4													0	Order code	

- ① Only for the "4...20 mA passive HART" output option
- ② For more data, refer to the Technical data section (Approvals and certification)
- ③ DIP= Dust Ignition Proof
- ④ For device dimensions, refer to the "Dimensions and weights" section
- ⑤ For the PP Wave Horn antenna option only
- ⑥ Other flange faces are available. Refer to your local supplier for more data. Flanges with the PTFE Wave Horn antenna option have a slip on-type design with an anti-blowout feature.
- ⑦ Minimum flange size for the PTFE Wave Horn antenna. This is not available for the Metallic Horn antenna.
- ⑧ This flange is not available for the PTFE Wave Horn antenna option
- ⑨ For DN150 and DN200 Metallic Horn antenna only