

**Ordering information**

**Electromagnetic flowmeter ProcessMaster - FEP311 and FEP315 , integral mount design**

Version number	Main order number																											Add. order no.	
	1-6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
<b>Without explosion protection</b>	<b>FEP311</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX			
<b>With explosion protection</b>	<b>FEP315</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX			
<b>Nominal diameter</b>																													
DN 3 (1/10 in.)		0	0	3																									
DN 4 (5/32 in.)		0	0	4																									
DN 6 (1/4 in.)		0	0	6																									
DN 8 (5/16 in.)		0	0	8																									
DN 10 (3/8 in.)		0	1	0																									
DN 15 (1/2 in.)		0	1	5																									
DN 20 (3/4 in.)		0	2	0																									
DN 25 (1 in.)		0	2	5																									
DN 32 (1-1/4 in.)		0	3	2																									
DN 40 (1-1/2 in.)		0	4	0																									
DN 50 (2 in.)		0	5	0																									
DN 65 (2-1/2 in.)		0	6	5																									
DN 80 (3 in.)		0	8	0																									
DN 100 (4 in.)		1	0	0																									
DN 125 (5 in.)		1	2	5																									
DN 150 (6 in.)		1	5	0																									
DN 200 (8 in.)		2	0	0																									
DN 250 (10 in.)		2	5	0																									
DN 300 (12 in.)		3	0	0																									
DN 350 (14 in.)		3	5	0																									
DN 400 (16 in.)		4	0	0																									
DN 450 (18 in.)		4	5	0																									
DN 500 (20 in.)		5	0	0																									
DN 600 (24 in.)		6	0	0																									
DN 700 (28 in.)		7	0	0																									
DN 760 (30 in.)		7	6	0																									
DN 800 (32 in.)		8	0	0																									
DN 900 (36 in.)		9	0	0																									
DN 1000 (40 in.)		0	0	1																									
DN 1050 (42 in.)		0	5	1																									
DN 1100 (44 in.)		1	0	1																									
DN 1200 (48 in.)		2	0	1																									
DN 1400 (54 in.)		4	0	1																									
DN 1500 (60 in.)		5	0	1																									
DN 1600 (66 in.)		6	0	1																									
DN 1800 (72 in.)		8	0	1																									
DN 2000 (80 in.)		0	0	2																									
<b>Lining material</b>																													
PTFE																												A	
ETFE																													E
Thick PTFE																													F
Hard rubber																													H
Elastomer (only for US production site)					1)																							M	
Linatex					2)																							J	
PFA																												P	
Soft rubber																												S	
<b>Electrode design</b>																													
Standard																													1
Standard + full filling electrode (TFE)					3)																							2	
Pointed head																													5
Spray head + full filling electrode (TFE)					3)																							6	

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- 1) Only for US production site, model FEP315, FEP325 (approval certificates: without PED approval, process connection: Flange ASME CI 150 / 300)
- 2) Upon request: Available with model FEP311 DN 50 ... 600 (2 ... 24 in.)
- 3) TFE electrode for detecting partially filled tubes, available from DN 50 (2 in.). Not available for Zone 1 / Div 1

Continued

Version number	Main order number																											Add. order no.
	1-6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27						
<b>Without explosion protection</b>	<b>FEP311</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX	
<b>With explosion protection</b>	<b>FEP315</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX	
<b>Signal electrode material</b>																												
Stainless steel 1.4539 (904)							A																					
Hastelloy C-4 (2.4610)							D																					
Titanium							F																					
Tantalum							G																					
Hastelloy B-3 (2.4600)							H																					
Platinum-iridium							J																					
Stainless steel 1.4571 (316Ti)							S																					
Tungsten carbide coated							T																					
<b>Grounding accessories</b>																												
Standard								1																				
Grounding electrodes (for material, refer to "Signal electrode material")								2																				
Grounding plate made of stainless steel, attached to one side of the flange						4)		3																				
Protection plate made of stainless steel, attached to both sides of the flange						4)		4																				
<b>Process connection</b>																												
Flange DIN PN 6								5)	D	0																		
Flange DIN PN 10									D	1																		
Flange DIN PN 16									D	2																		
Flange DIN PN 25									D	3																		
Flange DIN PN 40									D	4																		
Flange DIN PN 64						6)		D	5																			
Flange DIN PN 100						6)		D	6																			
Flange, ASME CL 150								A	1																			
Flange, ASME CL 300								A	3																			
Flange, ASME CL 600						6)		A	6																			
Flange, JIS 10K								J	1																			
Flange, AS2129 table E						7)		E	4																			
Flange, AS2129 table D						7)		E	5																			
<b>Process connection material</b>																												
Steel																											B	
Stainless steel flange											8)																D	
<b>Certificates</b>																												
Meter tube with PED approval																											0	
Meter tube without PED approval (only China and US production sites. Specify installation length J1, J3 or JN)																											1	
Acceptance test certificate (3.1) to EN 10204																											2	
Pressure test to AD-2000																											3	
Material certificate 3.1 to EN 10204 and pressure test to AD-2000																											4	
<b>Calibration</b>																												
Standard accuracy											9)																A	
Increased accuracy											10)																B	
Standard accuracy + ScanMaster function											9)																K	
Increased accuracy + ScanMaster function											10)																L	
Standard accuracy for certified calibration											11)																M	
5-point DKD calibration											12)																T	

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- 4) Can only be used for sensors ≤ DN 600 (24 in) and PTFE / thick PTFE / ETFE / PFA linings. Material: See data sheet. For Hard rubber, Soft rubber and Linatex please use loose grounding rings
- 5) Available from DN 1000 (40 in.)
- 6) DN 15 ... DN 200 (1/2 ... 8 in.) Hard rubber
- 7) Upon request
- 8) Material: See data sheet
- 9) Standard accuracy (0.4% of rate) assumes 2 calibration points. If more than 2 calibration points are required, you must specify 3 or 5 points under "Number of test points"
- 10) Increased accuracy (0.2% of rate) assumes 3 calibration points. If more than 3 calibration points are required, you must specify 5 points under "Number of test points". Available for DN10 (3/8 in.) ... 800 (32 in.)
- 11) 3rd party witnessed calibration
- 12) Available for nominal diameters DN 50 (2 in.) ... 600 (24 in.), DN 800 (32 in.)

Continued

Version number	Main order number																				Add. order no.																										
	1-6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26	27																								
<b>Without explosion protection</b>	<b>FEP311</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>XX</b>																								
<b>With explosion protection</b>	<b>FEP315</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>XX</b>																								
<b>Sensor temperature range / Ambient temperature range</b>																																															
Standard sensor design / -20 ... 60 °C (-4 ... 140 °F)													13)	1																																	
Standard sensor design / -40 ... 60 °C (-40 ... 140 °F)													13)	2																																	
High-temperature sensor design / -20 ... 60 °C (-4 ... 140 °F)													14)	3																																	
High-temperature sensor design / -40 ... 60 °C (-40 ... 140 °F)													14)	4																																	
<b>Name plate</b>																																															
Sticker																			A																												
Stainless steel																			B																												
Stainless steel, and TAG label stainless steel																			C																												
<b>Signal cable length</b>																																															
No cable																				0																											
<b>Explosion protection</b>																																															
None															15)																																
ATEX / IEC Zone 1															16)	A																															
ATEX / IEC Zone 2 / 21																L																															
usFMc Div 2 Zone 2																M																															
usFMc Div 1																P																															
NEPSI Zone1															17)	R																															
NEPSI Zone2															18)	U																															
															18)	V																															
<b>Protection type for transmitter / sensor</b>																																															
Standard / IP67 (NEMA 4X)																			19)	1																											
Other																				9																											
<b>Cable gland</b>																																															
M20 x 1.5																				A																											
1/2 in. NPT																				B																											
PF 1/2 in.																				C																											
<b>Power supply</b>																																															
100 ... 230 V AC, 50 Hz																																										1					
24 V AC / DC, 50 Hz																																											2				
100 ... 230 V AC, 60 Hz																																											3				
24 V AC / DC, 60 Hz																																											4				
<b>Signal inputs and outputs</b>																																															
HART + 20 mA passive + pulses + contact input / output																																											20)	B			
HART + 20 mA active + pulses + contact input / output																																													21)	C	
HART + 20 mA active + pulses + contact output																																														22)	D
PROFIBUS PA + contact output																																															E
FOUNDATION Fieldbus + contact output																																															F
<b>Default settings / Diagnostics</b>																																															
Parameters are at factory settings / Standard																																													1		
Parameters are set according to customer specifications / Standard																																														3	

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- 13) Maximum fluid temperature for standard sensor design:
  - 130 °C with PTFE, PFA, ETFE, thick PTFE,
  - 90 °C (80 °C for China production site) with hard rubber,
  - 60 °C with soft rubber,
  - 70 °C with Linatex,
  - 40 °C only in conjunction with stainless steel flange.
- 14) Maximum fluid temperature for high-temperature sensor design: 180 °C with PFA, thick PTFE. 130 °C with ETFE, PTFE. Thick PTFE available for DN 25 ... DN 300, PFA available for DN 10 ... DN 200. -40 °C only in conjunction with stainless steel flange.
- 15) Explosion protection only possible in conjunction with dual-compartment transmitter housing.
- 16) Only with model FEP311.
- 17) Div 1 available up to DN 300 (12 in.).
- 18) Production site: China.
- 19) Transmitter degree of protection = IP67 (NEMA 4X) with single-compartment and dual-compartment housing
- 20) Choice with design Zone 2 / Div 2 or Zone 1 / Div1.
- 21) Choice with design Zone 2 / Div 2.
- 22) Choice with design Zone 1 / Div 1.

## Continued

Version number	Main order number																											Add. order no.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
<b>Without explosion protection</b>	<b>FEP311</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>XX</b>
<b>With explosion protection</b>	<b>FEP315</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>XX</b>
<b>Accessories</b>																													
None																											AY		
<b>Plug connector</b>																													
M12 x 1 fieldbus																											23) U2		
<b>Transmitter housing design</b>																													
Single-compartment housing																											16) H1		
Dual-compartment housing																											H2		
<b>Insertion depth</b>																													
Flanges, ASME CL 150, ISO-compliant installation length																											JA		
Flanges, ASME CL 300, ISO-compliant installation length																											JC		
Flanges (Chinese installation length) (production site: China. Certificate: Without PED approval)																											24) JN		
<b>Additional certificates</b>																											25)		
Russia, metrological and GOST R certificate																											26) CG1		
Kazakhstan, metrological and GOST K certificate																											26) CG2		
Ukraine, metrological certificate																											26) CG3		
Belarus, metrological certificate																											26) CG6		
<b>Additional Ex certificates and approvals</b>																											25)		
Russia, GOST-Ex and RTN certificate																											26) EG7		
Kazakhstan, Ex applications certificate																											26) EG3		
Ukraine, GOST Ex and Ex application certificate																											26) EG5		
Belarus, GGTN certificate																											26) EG9		
<b>Number of test points</b>																													
3 points																											T3		
5 points																											T5		
<b>Language of documentation</b>																													
German																											M1		
English																											M5		
Chinese																											M6		
Russian																											MB		
Western Europe / Scandinavia language package (languages: DE, EN, DA, ES, FR, IT, NL, PT, FI, SV)																											MW		
Eastern Europe language package (languages: DE, EL, CS, ET, LV, LT, HU, PL, SK, SL, RO, BG)																											ME		

16) Only with model FEP311

23) Only for PROFIBUS PA Not for model FEP315

24) To be coded in case of FM approval only

25) Not available for PROFIBUS PA or FOUNDATION Fieldbus

26) Not with single-compartment housing

Electromagnetic flowmeter ProcessMaster - FEP321 and FEP325 , remote mount design

Version number	Main order number																											Add. order no.		
	1 – 6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27								
<b>Without explosion protection</b>	<b>FEP321</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<b>With explosion protection</b>	<b>FEP325</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<b>Nominal diameter</b>																														
	DN 3 (1/10 in.)		0	0	3																									
	DN 4 (5/32 in.)		0	0	4																									
	DN 6 (1/4 in.)		0	0	6																									
	DN 8 (5/16 in.)		0	0	8																									
	DN 10 (3/8 in.)		0	1	0																									
	DN 15 (1/2 in.)		0	1	5																									
	DN 20 (3/4 in.)		0	2	0																									
	DN 25 (1 in.)		0	2	5																									
	DN 32 (1-1/4 in.)		0	3	2																									
	DN 40 (1-1/2 in.)		0	4	0																									
	DN 50 (2 in.)		0	5	0																									
	DN 65 (2-1/2 in.)		0	6	5																									
	DN 80 (3 in.)		0	8	0																									
	DN 100 (4 in.)		1	0	0																									
	DN 125 (5 in.)		1	2	5																									
	DN 150 (6 in.)		1	5	0																									
	DN 200 (8 in.)		2	0	0																									
	DN 250 (10 in.)		2	5	0																									
	DN 300 (12 in.)		3	0	0																									
	DN 350 (14 in.)		3	5	0																									
	DN 400 (16 in.)		4	0	0																									
	DN 450 (18 in.)		4	5	0																									
	DN 500 (20 in.)		5	0	0																									
	DN 600 (24 in.)		6	0	0																									
	DN 700 (28 in.)		7	0	0																									
	DN 760 (30 in.)		7	6	0																									
	DN 800 (32 in.)		8	0	0																									
	DN 900 (36 in.)		9	0	0																									
	DN 1000 (40 in.)		0	0	1																									
	DN 1050 (42 in.)		0	5	1																									
	DN 1100 (44 in.)		1	0	1																									
	DN 1200 (48 in.)		2	0	1																									
	DN 1400 (54 in.)		4	0	1																									
	DN 1500 (60 in.)		5	0	1																									
	DN 1600 (66 in.)		6	0	1																									
	DN 1800 (72 in.)		8	0	1																									
	DN 2000 (80 in.)		0	0	2																									
<b>Lining material</b>																														
	PTFE								A																					
	ETFE								E																					
	Thick PTFE								F																					
	Hard rubber								H																					
	Elastomer (only for US production site)					1)			M																					
	Linatex					2)			J																					
	PFA								P																					
	Soft rubber								S																					
<b>Electrode design</b>																														
	Standard								1																					
	Standard + full filling electrode (TFE)					3)			2																					
	Pointed head								5																					
	Spray head + full filling electrode (TFE)					3)			6																					

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- 1) Only for US production site, model FEP315, FEP325 (approval certificates: without PED approval, process connection: Flange ASME CI 150 / 300)
- 2) Upon request: Available with model FEP321 DN 50 ... 600 (2 ... 24 in.)
- 3) TFE electrode for detecting partially filled tubes, available from DN 50 (2 in.). Not available for zone 1 / Div 1

Continued

Version number	Main order number																				Add. order no.			
	1-6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26	27	
<b>Without explosion protection</b>	<b>FEP321</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX	
<b>With explosion protection</b>	<b>FEP325</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX	
<b>Signal electrode material</b>																								
Stainless steel 1.4539 (904)						A																		
Hastelloy C-4 (2.4610)						D																		
Titanium						F																		
Tantalum						G																		
Hastelloy B-3 (2.4600)						H																		
Platinum-iridium						J																		
Stainless steel 1.4571 (316Ti)						S																		
Tungsten carbide coated						T																		
<b>Grounding accessories</b>																								
Standard							1																	
Grounding electrodes (for material, refer to "Signal electrode material")							2																	
Grounding plate made of stainless steel, attached to one side of the flange					4)		3																	
Protection plate made of stainless steel, attached to both sides of the flange					4)		4																	
<b>Process connection</b>																								
Flange DIN PN 6							5)	D	0															
Flange DIN PN 10								D	1															
Flange DIN PN 16								D	2															
Flange DIN PN 25								D	3															
Flange DIN PN 40								D	4															
Flange DIN PN 64					6)		D	5																
Flange DIN PN 100					6)		D	6																
Flange, ASME CL 150							A	1																
Flange, ASME CL 300							A	3																
Flange, ASME CL 600					6)		A	6																
Flange, JIS 10K							J	1																
Flange, AS2129 table E					7)		E	4																
Flange, AS2129 table D					7)		E	5																
<b>Process connection material</b>																								
Steel																							B	
Stainless steel flange																							8) D	
<b>Certificates</b>																								
Meter tube with PED approval																								0
Meter tube without PED approval (only China and US production sites. Specify installation length J1, J3 or JN)																								1
Acceptance test certificate (3.1) to EN 10204																								2
Pressure test to AD-2000																								3
Material certificate 3.1 to EN 10204 and pressure test to AD-2000																								4
<b>Calibration</b>																								
Standard accuracy										9)														A
Increased accuracy										10)														B
Standard accuracy + ScanMaster function										9)														K
Increased accuracy + ScanMaster function										10)														L
Standard accuracy for certified calibration										11)														M
5-point DKD calibration										12)														T

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- 4) Can only be used for sensors ≤ DN 600 (24 in) and PTFE / thick PTFE / ETFE / PFA linings. Material: See data sheet. For Hard rubber, Soft rubber and Linatex please use loose grounding rings
- 5) Available from DN 1000 (40 in.)
- 6) DN 15 ... DN 200 (1/2 ... 8 in.) Hard rubber
- 7) Upon request
- 8) Material: See data sheet
- 9) Standard accuracy (0.4% of rate) assumes 2 calibration points. If more than 2 calibration points are required, you must specify 3 or 5 points under "Number of test points"
- 10) Increased accuracy (0.2% of rate) assumes 3 calibration points. If more than 3 calibration points are required, you must specify 5 points under "Number of test points". Available for DN10 (3/8 in.) ... 800 (32 in.)
- 11) 3rd party witnessed calibration
- 12) Available for nominal diameters DN 50 (2 in.) ... 600 (24 in.), DN 800 (32 in.)

Continued

Version number	Main order number																				Add. order no.																							
	1-6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26	27																					
<b>Without explosion protection</b>	<b>FEP321</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX																					
<b>With explosion protection</b>	<b>FEP325</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX																					
<b>Sensor temperature range / Ambient temperature range</b>																																												
Standard sensor design / -20 ... 60 °C (-4 ... 140 °F)													13)	1																														
Standard sensor design / -40 ... 60 °C (-40 ... 140 °F)													13)	2																														
High-temperature sensor design / -20 ... 60 °C (-4 ... 140 °F)													14)	3																														
High-temperature sensor design / -40 ... 60 °C (-40 ... 140 °F)													14)	4																														
<b>Name plate</b>																																												
Sticker																				A																								
Stainless steel																			15)	B																								
Stainless steel, and TAG label stainless steel																			15)	C																								
<b>Signal cable length</b>																																												
No cable																			16)	0																								
5 m (approx. 15 ft.) standard cable																				1																								
10 m (approx. 30 ft.) standard cable																				2																								
20 m (approx. 60 ft.) standard cable																				3																								
30 m (approx. 100 ft.) standard cable																				4																								
50 m (approx. 165 ft.) standard cable																				5																								
80 m (approx. 260 ft.) standard cable																			17)	6																								
100 m (approx. 325 ft.) standard cable																			17)	7																								
150 m (approx. 490 ft.) standard cable																			17)	8																								
<b>Explosion protection</b>																																												
None																			18)	A																								
ATEX / IEC Zone 1																				L																								
ATEX / IEC Zone 2 / 21																				M																								
usFMc Div 2 Zone 2																				P																								
usFMc Div 1																			19)	R																								
NEPSI Zone1																			20)	U																								
NEPSI Zone2																			20)	V																								
<b>Protection type for transmitter / sensor</b>																																												
Standard / IP 67 (NEMA 4X)																			21)	1																								
Standard / IP 68 (NEMA 6P)																			21) 22)	2																								
Standard / IP 68 (NEMA 6P), signal cable connected and sealed in																			21) 23)	3																								
<b>Cable gland</b>																																												
M20 x 1.5																																									A			
1/2 in. NPT																																											B	
PF 1/2 in.																																											C	
<b>Power supply</b>																																												
None																																										0		
<b>Signal inputs and outputs</b>																																												
None																																											Y	
<b>Default settings / Diagnostics</b>																																												
Parameters are at factory settings / Standard diagnostic functions activated																																											1	
Parameters are set according to customer specifications / Standard diagnostic functions activated																																												3

Continued on next page

- 13) Maximum fluid temperature for standard sensor design:  
 130 °C with PTFE, PFA, ETFE, thick PTFE,  
 90 °C (80 °C for China production site) with hard rubber,  
 60 °C with soft rubber,  
 70 °C with Linatex,  
 -40 °C only in conjunction with stainless steel flange.
- 14) Maximum fluid temperature for high-temperature sensor design: 180 °C with PFA, thick PTFE. 130 °C with ETFE, PTFE. Thick PTFE available for DN 25 ... DN 300, PFA available for DN 10 ... DN 200. -40 °C only in conjunction with stainless steel flange.
- 15) Not with plastic terminal box.
- 16) For flowmeter sensor model FEP325 designed for zone 1 / Div 1, signal cable length can be max. 50 m (164 ft) in combination with transmitter model FET321 or transmitter model FET 325 designed for zone 2 / Div 2. For sensor model FEP325 designed for zone 1 / Div 1, signal cable length can be max. 10 m (32.8 ft) in combination with transmitter model FET325 designed for zone 1 / Div 1.
- 17) Not with plastic terminal box.
- 18) Model FEP321 only.
- 19) Div 1 available up to DN 300 (12 in.).
- 20) Production site: China.
- 21) Transmitter degree of protection = IP67 (NEMA 4X) with single-compartment and dual-compartment housing.
- 22) Only with external transmitter, sealing compound (optional) D141B038U01.
- 23) Not available with FET325 transmitter in zone1 / Div1 design.

Continued

Version number	Main order number																				Add. order no.								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		21	22	23	24	25	26	27	
<b>Without explosion protection</b>	<b>FEP321</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>XX</b>
<b>With explosion protection</b>	<b>FEP325</b>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>XX</b>
<b>Accessories</b>																													
None																											AY		
With preamplifier, integrated into sensor housing																											24) AP		
<b>Lay length</b>																													
Flanges, ASME CL 150, ISO-compliant installation length																											JA		
Flanges, ASME CL 300, ISO-compliant installation length																											JC		
Flanges (Chinese installation length) (production site: China. Certificate: Without PED approval)																											25) JN		
<b>Terminal box material</b>																													
Aluminum																											UTA		
Plastic																											26) UTP		
<b>Line frequency</b>																													
50 Hz (When ordering the sensor without a transmitter, specify the mains frequency.)																											F5		
60 Hz (When ordering the sensor without a transmitter, specify the mains frequency.)																											F6		
<b>Additional certificates</b>																													
Russia, metrological and GOST R certificate																											27) CG1		
Kazakhstan, metrological and GOST K certificate																											CG2		
Ukraine, metrological certificate																											CG3		
Belarus, metrological certificate																											CG6		
<b>Additional Ex certificates and approvals</b>																													
Russia, GOST-Ex and RTN certificate																											27) EG7		
Kazakhstan, Ex applications certificate																											EG3		
Ukraine, GOST Ex and Ex application certificate																											EG5		
Belarus, GGTN certificate																											EG9		
<b>Number of test points</b>																													
3 points																											T3		
5 points																											T5		
<b>Language of documentation</b>																													
German																											M1		
English																											M5		
Chinese																											M6		
Russian																											MB		
Western Europe / Scandinavia language package (languages: DE, EN, DA, ES, FR, IT, NL, PT, FI, SV)																											MW		
Eastern Europe language package (languages: DE, EL, CS, ET, LV, LT, HU, PL, SK, SL, RO, BG)																											ME		

24) Preamplifier required if signal cable length is > 50 m (>160 ft). Preamplifier not available for zone1 / Div1

25) To be coded in case of FM approval only

26) Only with model FEP321 (DN10 and above) and up to a maximum signal cable length of 50 m (160 ft).

27) Not available for PROFIBUS PA or FOUNDATION Fieldbus. Not with single-compartment housing. Not with plastic terminal box.



Remote transmitter for ProcessMaster - FET321, FET325

	Main order number															Add. order no.
	Version number	1-6	7	8	9	10	11	12	13	14	15					
<b>Without explosion protection</b>	FET321	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX
<b>With explosion protection</b>	FET325	X	X	X	X	X	X	X	X	X	X	X	X	X	X	XX
<b>Sensor temperature range / Ambient temperature range</b>																
Standard sensor design / -20 ... 60 °C (-4 ... 140 °F)			1													
Standard sensor design / -40 ... 60 °C (-4 ... 140 °F)			2													
High-temperature sensor design / -20 ... 60 °C (-4 ... 140 °F)			3													
High-temperature sensor design / -40 ... 60 °C (-4 ... 140 °F)			4													
<b>Name plate</b>																
Sticker																A
Stainless steel																B
Stainless steel, and TAG label stainless steel																C
<b>Signal cable length</b>																
No cable			1)		0											
<b>Explosion protection</b>																
None			2)													A
ATEX / IEC Zone 1			3)													L
ATEX / IEC Zone 2 / 21			3)													M
usFMc Div 2 Zone 2			3)													P
usFMc Div 1			3)													R
NEPSI Zone1			3) 4)													U
NEPSI Zone2			3) 4)													V
<b>Protection type for transmitter / sensor</b>																
Standard / IP 67 (NEMA 4X)					5)											1
<b>Cable gland</b>																
M20 x 1.5																A
1/2 in. NPT																B
PF 1/2 in.																C
None																Y
<b>Power supply</b>																
100 ... 230 V AC, 50 Hz																1
24 V AC / DC, 50 Hz																2
100 ... 230 V AC, 60 Hz																3
24 V AC / DC, 60 Hz																4
<b>Signal inputs / outputs</b>																
HART + 20 mA passive + pulses + contact input / output															6)	B
HART + 20 mA active + pulses + contact input / output															7)	C
HART + 20 mA active + pulses + contact output															8)	D
PROFIBUS PA + contact output																E
FOUNDATION Fieldbus + contact output																F
<b>Default settings / Diagnostics</b>																
Without / standard diagnostic functions															9)	0
Parameters are at factory settings / Standard diagnostic functions activated																1
Parameters are set according to customer specifications / Standard diagnostic functions activated																3

Continued on next page

- 1) For model FET325 designed for Ex Zone 1 / Div 1 10 m (32.81 ft) of cable is connected to the transmitter.
- 2) Explosion protection only possible in conjunction with dual-compartment transmitter housing.
- 3) Model FET325 only.
- 4) Production site: China.
- 5) Transmitter degree of protection = IP67 (NEMA 4X) with single-compartment and dual-compartment housing, IP20 with panel-mount housing.
- 6) Choice with design Zone 2 / Div 2 or Zone 1 / Div1 or Zone 1 / Div1 or without explosion protection.
- 7) Choice with design Zone 2 / Div 2 or without explosion protection.
- 8) Choice with design Zone 1 / Div 1.
- 9) Must be selected if transmitter is being ordered as a spare part or without a sensor.

## Continued

	Version number	Main order number										Add. order no.		
		1-6	7	8	9	10	11	12	13	14	15			
<b>Without explosion protection</b>	<b>FET321</b>	X	X	X	X	X	X	X	X	X	X			<b>XX</b>
<b>With explosion protection</b>	<b>FET325</b>	X	X	X	X	X	X	X	X	X	X			<b>XX</b>
<b>Plug connector</b> M12 x 1 fieldbus												10)		U2
<b>Transmitter housing design</b> Single-compartment housing Dual-compartment housing												11)		H1 H2
<b>Additional options</b> With Gore-Tex diaphragm												11)		KG
<b>Other certificates</b> PMO approval (only for USA)														CR
<b>Additional certificates</b> Russia, metrological and GOST R certificate Kazakhstan, metrological and GOST K certificate Ukraine, metrological certificate Belarus, metrological certificate												12)		CG1 CG2 CG3 CG6
<b>Additional Ex certificates and approvals</b> Russia, GOST-Ex and RTN certificate Kazakhstan, Ex applications certificate Ukraine, GOST Ex and Ex application certificate Belarus, GGTN certificate												12)		EG7 EG3 EG5 EG9
<b>Language of documentation</b> German English Chinese Russian Western Europe / Scandinavia language package (languages: DE, EN, DA, ES, FR, IT, NL, PT, FI, SV) Eastern Europe language package (languages: DE, EL, CS, ET, LV, LT, HU, PL, SK, SL, RO, BG)														M1 M5 M6 MB MW ME

10) Only for Profibus PA, not for model FET325.

11) Model FET321 only.

12) Not available for PROFIBUS PA or FOUNDATION Fieldbus. Not with single-compartment housing.

**Transmitter plug-in module for ProcessMaster - FET301**

Version number	Main order number										Additional order no.	
	1-6	7	8	9	10	11	12	13	14	15		
	<b>FET301</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>
<b>Temperature Range of Installation / Ambient Temperature Range</b>												
Standard design / -20 ... 60 °C (-4 ... 140 °F)												
1												
<b>Name Plate</b>												
Adhesive label												
A												
<b>Signal Cable Length and Type</b>												
Without signal cable												
0												
<b>Explosion Protection Certification</b>												
Without												
A												
<b>Protection Class Transmitter / Protection Class Sensor</b>												
Others												
9												
<b>Cable Conduits</b>												
Others												
Z												
<b>Power Supply</b>												
100 ... 230 V AC, 50 Hz												
24 V AC / DC, 50 Hz												
1												
100 ... 230 V AC, 60 Hz												
24 V AC / DC, 60 Hz												
2												
3												
4												
<b>Input and Output Signal Type</b>												
HART + 20 mA passive + Pulse + Contact I/O												
HART + 20 mA active + Pulse + Contact I/O												
PROFIBUS PA + contact output												
FOUNDADA FOUNDATION Fieldbus + contact output												
B												
C												
E												
F												
<b>Configuration Type / Diagnostics Type</b>												
Without / Standard diagnostic functions												
0												
<b>Language of Documentation</b>												
German												
English												
Chinese												
Russian												
Language package Western Europe / Scandinavia (Languages: DE, EN, DA, ES, FR, IT, NL, PT, FI, SV)												
Language package Eastern Europe (Languages: DE, EL, CS, ET, LV, LT, HU, PL, SK, SL, RO, BG)												
M1												
M5												
M6												
MB												
MW												
ME												

**Flowmeter sensor simulator - FXC4000**

Version number	Main order number					
	1-5	6	7	8	9	10
	<b>55XC4</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Flow Signal Setting</b>						
Without (adapter only)						
0						
3-position digitswitch with 1000 steps						
1						
<b>Power Supply</b>						
Without (adapter only)						
110 ... 240 V AC 50 / 60 Hz // With Schuko plug						
0						
24 ... 48 V AC / DC // With 4 mm plug						
1						
110 ... 240 V AC 50 / 60 Hz // With US plug						
2						
3						
<b>Accessories</b>						
Without						
0						
Adapter for converter type FXE4000-E4, FXM2000-XM2, FXF2000-DF23						
1						
Adapter board for converter type FSM4000-S4						
5						
Adapter board for converter type FET321, FET325, FET521, FET525						
6						
<b>Design level (specified by ABB)</b>						
*						
<b>Name Plate</b>						
German						
1						
English						
2						
French						
3						