Flow Measurement
SITRANS F S Clamp-on

Ultrasonic flowmeter SITRANS FS230 - Ordering data

Selection and Ordering data	Article No.	Ord. code
SITRANS FS230 clamp-on flowmeter ↗	7 M E 3 7 2 ■ - ■■■■■ - ■■■■	■■■
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		

Transmitter model

No transmitter, external DSL only	0
Transmitter FST030	3

Pipe material/temperature

Transmitter only - no sensor	0
Steel (stainless steel, carbon steel), temperature range: best use < 80 °C (176 °F)	1
Steel (stainless steel, carbon steel), temperature range: best use > 80 °C (176 °F)	2
Plastic (PVC) (for liquid applications), temperature: -40 ... +121 °C (-40 ... 250 °F)	6
Any material, temperature: -40 ... +121 °C (-40 ... 250 °F)	7
Any material, very high temperature: -40 ... +230 °C (-40 ... 446 °F)	8

Pipe outer diameter range

Transmitter only - no sensor	A
13 ... 19 mm (0.5 ... 0.75")	B
19.3 ... 30.5 mm (0.76 ... 1.20")	C
30.7 ... 50.8 mm (1.21 ... 2.00")	D
51 ... 76 mm (2.01 ... 3.00")	E
78 ... 127 mm (3.1 ... 5.0")	F
129 ... 203 mm (5.1 ... 8.0")	G
206 ... 305 mm (8.1 ... 12.0")	H
307 ... 508 mm (12.1 ... 20.0")	J
510 ... 813 mm (20.1 ... 32.0")	K
815 ... 9144 mm (32.1 ... 360")	L

Pipe wall thickness range

Transmitter only - no sensor	A
0.635 ... 1.016 mm (0.025 ... 0.04")	B
1.016 ... 1.524 mm (0.04 ... 0.06")	C
1.524 ... 2.032 mm (0.06 ... 0.08")	D
2.032 ... 3.048 mm (0.08 ... 0.12")	E
3.048 ... 4.064 mm (0.12 ... 0.16")	F
4.064 ... 5.842 mm (0.16 ... 0.23")	G
5.842 ... 8.128 mm (0.23 ... 0.32")	H
8.128 ... 11.176 mm (0.32 ... 0.44")	J
11.176 ... 15.748 mm (0.44 ... 0.62")	K
15.748 ... 31.75 mm (0.62 ... 1.25")	L
31.75 ... 50.8 mm (1.25 ... 2.00")	M

Sensor mounting

Transmitter only - no sensor	0
Mounting straps only	1
Standard frames and tracks	2
Magnetic - no straps	4
Magnetic - with straps	6
High precision mount (single enclosure)	7
High precision mount (dual enclosure)	8

Number of paths (sensor pairs)

Transmitter only - no sensor	0
One path	1
Two path	2

Environment

Standard	1

Selection and Ordering data	Article No.	Ord. code
SITRANS FS230 clamp-on flowmeter	7 M E 3 7 2 ■ - ■■■■■ - ■■■■	■■■
Transmitter/DSL material and mounting style		
Wallmount transmitter, internal DSL, transmitter: aluminum wallbox, NEMA 4X, DSL: none, direct connected sensor cables, (max 2-path, max. 20 meter sensor cable)	U	
Ex approvals		
Non-Ex	A	
ATEX, wallbox enclosure	B	
FM, wallbox enclosure	G	
FMc, wallbox enclosure	L	
ATEX, IECEx, FM, FMc, wallbox	P	
Local User Interface		
Blind version transmitter	1	
Graphical local user interface, 240 x 160 pixels	3	

3

Flow Measurement
SITRANS F S Clamp-on

Ultrasonic flowmeter SITRANS FS230 - Ordering data

Selection and Ordering data	Order code
Further designs	
Please add "**-Z**" to Article No. and specify Order code(s).	
Cable glands - transmitter, DSL (not for sensor cables)	
No glands, metric threads on transmitter	**A01**
No glands, metric thread with NPT thread adapters, stainless steel: quantity based on selection "U" in data place 14	**A60**
No glands, metric thread with NPT thread adapters, nickel plated brass: quantity based on selection "U" in data place 14	**A61**
Nickel plated brass glands: quantity based on selection "U" in data place 14	**A62**
Plastic glands: quantity based on selection "U" in data place 14	**A64**
Stainless steel glands: quantity based on selection "U" in data place 14	**A66**
Software functions and CT approvals	
Software: for standard industry applications	**B11**
Software including hydrocarbon process values	**B39**
I/O configuration Ch1	
Non-Ex, 4 ... 20 mA HART, menu selected passive/active	**E02**
Ex, 4 ... 20 mA HART, active	**E06**
Ex, 4 ... 20 mA HART, passive	**E07**
Modbus RTU 485	**E14**
I/O configuration Ch2, Ch3 and Ch4	
None	**F00**
Non-Ex	
• Ch2: current/freq./pulse, Ch3: none Ch4: none. Active/passive menu selected	**F01**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: none. Active/passive menu selected	**F02**
• Ch2:current/freq./pulse, Ch3: current/freq./pulse Ch4:current/freq./pulse. Active/passive menu selected	**F03**
• Ch2:current/freq./pulse, Ch3: current/freq./pulse Ch4: relay. Active/passive menu selected	**F04**
• Ch2: current/freq./pulse, Ch3: relay Ch4: relay. Active/passive menu selected	**F05**
• Ch2: current/freq./pulse, Ch3: relay Ch4: none. Active/passive menu selected	**F06**
Ex Active	
• Ch2: current/freq./pulse, Ch3: none Ch4: none	**F11**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: none	**F12**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: current/freq./pulse	**F13**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse, Ch4: relay	**F14**
• Ch2: current/freq./pulse, Ch3: relay, Ch4: relay	**F15**
• Ch2: current/freq./pulse, Ch3: relay, Ch4: none	**F16**

Selection and Ordering data	Order code
Ex Passive	
• Ch2: current/freq./pulse, Ch3: none, Ch4: none	**F21**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: None	**F22**
• Ch2:current/freq./pulse, Ch3: current/freq./pulse Ch4:current/freq./pulse	**F23**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: relay	**F24**
• Ch2: current/freq./pulse, Ch3: relay, Ch4: relay	**F25**
• Ch2: current/freq./pulse, Ch3: relay, Ch4: none	**F26**
Temperature sensors and pockets	
1000 Ω platinum standard clamp-on RTD	**J61**
1000 Ω platinum submersible clamp-on RTD	**J62**
Sensor to transmitter cables	
10 m (32.8 ft) standard/submersible coax sensor cable pair with nylon glands	**K24**
20 m (65.6 ft) standard/submersible coax sensor cable pair with nylon glands	**K25**
10 m (32.8 ft) standard/submersible coax sensor cable pair with nickel plated brass glands	**K29**
20 m (65.6 ft) standard/submersible coax sensor cable pair with nickel plated brass glands	**K30**
10 m (32.8 ft) standard/submersible coax sensor cable pair with stainless steel glands	**K34**
20 m (65.6 ft) standard/submersible coax sensor cable pair with stainless steel glands	**K35**
20 m (65.6 ft) plenum rated coax sensor cable pair with nylon glands	**K37**
20 m (65.6 ft) plenum rated coax sensor cable pair with nickel plated brass glands	**K39**
20 m (65.6 ft) plenum rated coax sensor cable pair with stainless steel glands	**K41**
10 m (32.8 ft) armored sensor cable pair with nickel plated brass glands	**K53**
20 m (65.6 ft) armored sensor cable pair with nickel plated brass glands	**K54**

3

Selection and Ordering data	Order code
RTD cable (clamp temperature sensor to transmitter)	
6 m (20 ft) standard RTD cable	**R50**
15 m (50 ft) standard RTD cable	**R51**
30 m (100 ft) standard RTD cable	**R52**
46 m (150 ft) standard RTD cable	**R53**
61 m (200 ft) standard RTD cable	**R54**
91 m (300 ft) standard RTD cable	**R55**
6 m (20 ft) submersible RTD cable	**R56**
15 m (50 ft) submersible RTD cable	**R57**
30 m (100 ft) submersible RTD cable	**R58**
46 m (150 ft) submersible RTD cable	**R59**
61 m (200 ft) submersible RTD cable	**R60**
91 m (300 ft) submersible RTD cable	**R61**
RTD cable (insert temperature sensor to transmitter)	
15 m (50 ft) RTD cable with nickel plated gland	**R74**
15 m (50 ft) RTD cable with stainless steel gland	**R75**
30 m (100 ft) RTD cable with nickel plated gland	**R76**
30 m (100 ft) RTD cable with stainless steel gland	**R77**
91 m (300 ft) RTD cable with nickel plated gland	**R78**
91 m (300 ft) RTD cable with stainless steel gland	**R79**
15 m (50 ft) insert RTD cable with nickel plated gland	**R80**
15 m (50 ft) insert RTD cable with stainless steel gland	**R81**
30 m (100 ft) insert RTD cable with nickel plated gland	**R82**
30 m (100 ft) insert RTD cable with stainless steel gland	**R83**
91 m (300 ft) insert RTD cable with nickel plated gland	**R84**
91 m (300 ft) insert RTD cable with stainless steel gland	**R85**
Mass storage	
Enable mass storage function for SD card (not available for USA)	**S30**
Tag plate	
Tag plate for transmitter, stainless steel	**Y15**
Tag name plate, stainless steel	**Y17**

3

Flow Measurement
SITRANS F S Clamp-on

Ultrasonic flowmeter SITRANS FS230 - Accessories/Spare parts

Selection and Ordering data	Article No.
System spare parts	
Tool kits andand loose parts	
"F" connector tool kit, 2 per	**A5E38145699**
Bag of loose spare parts; for wallmount, including cable strain relief components, mounting tool, seals and gasket, assorted screws and washers, hex cap nut, blind plugs, and O-rings	**A5E38288072**
Electronics assemblies and modules	
Wall box	
• Display and keypad assembly	**A5E37697615**
• Digital Sensor Link (DSL), internal, for wall box	**A5E38014726**
• SensorFlash (4 GB micro SD card) -40 °C … +85 °C	**A5E38288507**
• Power supply, for wall box, (240 V AC, 47 ... 63 Hz), (24 ... 90 V DC)	**A5E38263021**
• Foam insert for wall box with connectors	**A5E38287828**
Cassettes, I/O configuration and communication	
Ex	
• Ch1: I/O and comm (active) 4 ... 20 mA output and HART 7.2	**A5E38012278**
• Ch1: I/O and comm (passive) 4 ... 20 mA output and HART 7.2	**A5E38013025**
• Ch1: communication Modbus RTU 485	**A5E38013054**
Non Ex	
• Ch1: I/O and comm (active/passive) 4 ... 20 mA output and HART 7.2	**A5E38013040**
• Ch1: communication Modbus RTU 485	**A5E38013069**
• Ch2: current/freq./pulse, Ch3: None Ch4: none. Menu select active/passive	**A5E38006256**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: none. Menu select active/passive	**A5E38006558**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: current/Freq./Pulse. Menu select active/passive	**A5E38006598**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: relay. Menu select active/passive	**A5E38006896**
• Ch2: current/freq./pulse, Ch3: relay Ch4: relay. Menu select active/passive	**A5E38006900**
• Ch2: current/freq./pulse, Ch3: relay Ch4: none. Menu select active/passive	**A5E38011432**
Ex Passive	
• Ch2: current/freq./pulse, Ch3: None Ch4: none	**A5E38012039**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: none	**A5E38012056**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: current/freq./pulse	**A5E38012121**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: relay	**A5E38019235**
• Ch2: current/freq./pulse, Ch3: relay Ch4: relay	**A5E38019263**
• Ch2: current/freq./pulse, Ch3: relay Ch4: none	**A5E38019378**
Ex Active	
• Ch2: current/freq./pulse, Ch3: none Ch4: none	**A5E38011478**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: none	**A5E38011509**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: current/freq./pulse	**A5E38011541**
• Ch2: current/freq./pulse, Ch3: current/freq./pulse Ch4: relay	**A5E38011600**
• Ch2: current/freq./pulse, Ch3: relay Ch4: relay	**A5E38011618**
• Ch2: current/freq./pulse, Ch3: relay Ch4: none	**A5E38011908**
Miscellaneous parts	
Wall bracket "pipe mounting"	**A5E38288020**
Wall bracket "panel mounting	**A5E38288032**
Metal kit: PSU cover, back plane	**A5E38415145**
Power input cover plate	**A5E38415205**
Blind plug brass-nickel 10 pcs (Ex version)	**A5E38145685**
Blind plug stainless steel 10 pcs (Ex version)	**A5E38145689**
F connectors, 4 pcs	**A5E38268608**

Article No./Sensor Crossreference

Steel (T1)			Steel (T2)			Plastic (liquid)		
Data place 8,9,10 of 7ME372.-... combination	Sensor part number	Sensor Size Code	Data place 8,9,10 of 7ME372.-... combination	Sensor part number	Sensor Size Code	Data place 8,9,10 of 7ME372.-... combination	Sensor part number	Sensor Size Code
1BB	7ME3950-5LG01	A1HT1	2BB	7ME3950-5LB11	A1	6BB	7ME3950-5LB01	A2
1BC	7ME3950-5LH01	A2HT1	2BC	7ME3950-5LB01	A2	6BC	7ME3950-5LB01	A2
1BD	7ME3950-5LB11	A1	2BD	7ME3950-5LB11	A1	6BD	7ME3950-5LB01	A2
1BE	7ME3950-5LB01	A2	2BE	7ME3950-5LB01	A2	6BE	7ME3950-5LB01	A2
1BF	7ME3950-5LB11	A1	2BF	7ME3950-5LB11	A1	6BF	7ME3950-5LB01	A2
1CB	7ME3950-5LG01	A1HT1	2CB	7ME3950-5LB11	A1	6CB	7ME3950-5LB01	A2
1CC	7ME3950-5LH01	A2HT1	2CC	7ME3950-5LB01	A2	6CC	7ME3950-5LB01	A2
1CD	7ME3950-5LJ01	A3HT1	2CD	7ME3950-5LB11	A1	6CD	7ME3950-5LB01	A2
1CE	7ME3950-5GK01	B1HT1	2CE	7ME3950-5GK21	B1HT2	6CE	7ME3950-5LB01	A2
1CF	7ME3950-5LB11	A1	2CF	7ME3950-5LB11	A1	6CF	7ME3950-5LB01	A2
1CG	7ME3950-5LB11	A1	2CG	7ME3950-5LB11	A1	6CG	7ME3950-5LB01	A2
1DB	7ME3950-5LG01	A1HT1	2DB	7ME3950-5LC11	B1	6DC	7ME3950-5LC01	B3
1DC	7ME3950-5LH01	A2HT1	2DC	7ME3950-5LC21	B2	6DD	7ME3950-5LC01	B3
1DD	7ME3950-5LJ01	A3HT1	2DD	7ME3950-5LC11	B1	6DE	7ME3950-5LC01	B3
1DE	7ME3950-5GK01	B1HT1	2DE	7ME3950-5GK21	B1HT2	6DF	7ME3950-5LC01	B3
1DF	7ME3950-5GL01	B2HT1	2DF	7ME3950-5GL21	B2HT2	6DG	7ME3950-5LC01	B3
1DG	7ME3950-5LC01	B3	2DG	7ME3950-5LC01	B3	6DH	7ME3950-5LC01	B3
1DH	7ME3950-5LC21	B2	2DH	7ME3950-5LC21	B2	6EC	7ME3950-5LC01	B3
1EB	7ME3950-5LG01	A1HT1	2EB	7ME3950-5LC11	B1	6ED	7ME3950-5LC01	B3
1EC	7ME3950-5LH01	A2HT1	2EC	7ME3950-5LC21	B2	6EE	7ME3950-5LC01	B3
1ED	7ME3950-5LJ01	A3HT1	2ED	7ME3950-5LC11	B1	6EF	7ME3950-5LC01	B3
1EE	7ME3950-5GK01	B1HT1	2EE	7ME3950-5GK21	B1HT2	6EG	7ME3950-5LC01	B3
1EF	7ME3950-5GL01	B2HT1	2EF	7ME3950-5GL21	B2HT2	6EH	7ME3950-5LC01	B3
1EG	7ME3950-5GM00	C1HT1	2EG	7ME3950-5GM20	C1HT2	6EJ	7ME3950-5LC01	B3
1EH	7ME3950-5GN00	C2HT1	2EH	7ME3950-5GN20	C2HT2	6EK	7ME3950-5LC01	B3
1EJ	7ME3950-5LC01	B3	2EJ	7ME3950-5LC01	B3	6FE	7ME3950-5LD00	C3
1EK	7ME3950-5LC01	B3	2EK	7ME3950-5LC01	B3	6FF	7ME3950-5LD00	C3
1FC	7ME3950-5LH01	A2HT1	2FC	7ME3950-5LD10	C1	6FG	7ME3950-5LD00	C3
1FD	7ME3950-5LJ01	A3HT1	2FD	7ME3950-5LD10	C1	6FH	7ME3950-5LD00	C3
1FE	7ME3950-5GK01	B1HT1	2FE	7ME3950-5GK21	B1HT2	6FJ	7ME3950-5LD00	C3
1FF	7ME3950-5GL01	B2HT1	2FF	7ME3950-5GL21	B2HT2	6FK	7ME3950-5LD00	C3
1FG	7ME3950-5GM00	C1HT1	2FG	7ME3950-5GM20	C1HT2	6GF	7ME3950-5LD00	C3
1FH	7ME3950-5GN00	C2HT1	2FH	7ME3950-5GN20	C2HT2	6GG	7ME3950-5LD00	C3
1FJ	7ME3950-5GP00	D1HT1	2FJ	7ME3950-5GP20	D1HT2	6GH	7ME3950-5LD00	C3
1FK	7ME3950-5LD10	C1	2FK	7ME3950-5LD10	C1	6GJ	7ME3950-5LD00	C3
1GD	7ME3950-5LJ01	A3HT1	2GD	7ME3950-5LD10	C1	6GK	7ME3950-5LD00	C3
1GE	7ME3950-5GK01	B1HT1	2GE	7ME3950-5GK21	B1HT2	6GL	7ME3950-5LD00	C3
1GF	7ME3950-5GL01	B2HT1	2GF	7ME3950-5GL21	B2HT2	6HG	7ME3950-5LE00	D3
1GG	7ME3950-5GM00	C1HT1	2GG	7ME3950-5GM20	C1HT2	6HH	7ME3950-5LE00	D3
1GH	7ME3950-5GN00	C2HT1	2GH	7ME3950-5GN20	C2HT2	6HJ	7ME3950-5LE00	D3
1GJ	7ME3950-5GP00	D1HT1	2GJ	7ME3950-5GP20	D1HT2	6HK	7ME3950-5LE00	D3
1GK	7ME3950-5GQ00	D2HT1	2GK	7ME3950-5GQ20	D2HT2	6HL	7ME3950-5LE00	D3
1GL	7ME3950-5LD00	C3	2GL	7ME3950-5LD00	C3	6HM	7ME3950-5LE00	D3
1HE	7ME3950-5GK01	B1HT1	2HE	7ME3950-5GK21	B1HT2	6JJ	7ME3950-5LE00	D3
1HF	7ME3950-5GL01	B2HT1	2HF	7ME3950-5GL21	B2HT2	6JK	7ME3950-5LE00	D3
1HG	7ME3950-5GM00	C1HT1	2HG	7ME3950-5GM20	C1HT2	6JL	7ME3950-5LE00	D3
1HH	7ME3950-5GN00	C2HT1	2HH	7ME3950-5GN20	C2HT2	6JM	7ME3950-5LE00	D3
1HJ	7ME3950-5GP00	D1HT1	2HJ	7ME3950-5GP20	D1HT2	6KK	7ME3950-5LF00	E2
1HK	7ME3950-5GQ00	D2HT1	2HK	7ME3950-5GQ20	D2HT2	6KL	7ME3950-5LF00	E2
1HL	7ME3950-5GR00	D4HT1	2HL	7ME3950-5GR20	D4HT2	6KM	7ME3950-5LF00	E2
1JG	7ME3950-5GM00	C1HT1	2JG	7ME3950-5GM20	C1HT2	6LM	7ME3950-5LF00	E2
1JH	7ME3950-5GN00	C2HT1	2JH	7ME3950-5GN20	C2HT2			
1JJ	7ME3950-5GP00	D1HT1	2JJ	7ME3950-5GP20	D1HT2			
1JK	7ME3950-5GQ00	D2HT1	2JK	7ME3950-5GQ20	D2HT2			
1JL	7ME3950-5GR00	D4HT1	2JL	7ME3950-5GR20	D4HT2			
1KH	7ME3950-5GN00	C2HT1	2KH	7ME3950-5GN20	C2HT2			
1KJ	7ME3950-5GP00	D1HT1	2KJ	7ME3950-5GP20	D1HT2			
1KK	7ME3950-5GQ00	D2HT1	2KK	7ME3950-5GQ20	D2HT2			
1KL	7ME3950-5GR00	D4HT1	2KL	7ME3950-5GR20	D4HT2			
1LJ	7ME3950-5GP00	D1HT1	2LJ	7ME3950-5GP20	D1HT2			
1LK	7ME3950-5GQ00	D2HT1	2LK	7ME3950-5GQ20	D2HT2			
1LL	7ME3950-5GR00	D4HT1	2LL	7ME3950-5GR20	D4HT2			

3

Flow Measurement
SITRANS F S Clamp-on

Ultrasonic flowmeter SITRANS FS230 - Accessories/Spare parts

Other (Univ)			Other (VH)		
Data place 8,9,10 of 7ME372.-... combination	Sensor part number	Sensor Size Code	Data place 8,9,10 of 7ME372.-... combination	Sensor part number	Sensor Size Code
7BB	7ME3950-5LB01	A2	8BB	7ME3950-5LA13	1
7BC	7ME3950-5LB01	A2	8BC	7ME3950-5LA13	1
7BD	7ME3950-5LB01	A2	8BD	7ME3950-5LA13	1
7BE	7ME3950-5LB01	A2	8BE	7ME3950-5LA13	1
7BF	7ME3950-5LB01	A2	8BF	7ME3950-5LA13	1
7CB	7ME3950-5LB01	A2	8CB	7ME3950-5LA13	1
7CC	7ME3950-5LB01	A2	8CC	7ME3950-5LA13	1
7CD	7ME3950-5LB01	A2	8CD	7ME3950-5LA13	1
7CE	7ME3950-5LB01	A2	8CE	7ME3950-5LA13	1
7CF	7ME3950-5LB01	A2	8CF	7ME3950-5LA13	1
7CG	7ME3950-5LB01	A2	8CG	7ME3950-5LA13	1
7DB	7ME3950-5LC01	B3	8DB	7ME3950-5LA13	1
7DC	7ME3950-5LC01	B3	8DC	7ME3950-5LA13	1
7DD	7ME3950-5LC01	B3	8DD	7ME3950-5LA13	1
7DE	7ME3950-5LC01	B3	8DE	7ME3950-5LA13	1
7DF	7ME3950-5LC01	B3	8DF	7ME3950-5LA13	1
7DG	7ME3950-5LC01	B3	8DG	7ME3950-5LA13	1
7DH	7ME3950-5LC01	B3	8DH	7ME3950-5LA13	1
7EB	7ME3950-5LC01	B3	8EB	7ME3950-5LA13	1
7EC	7ME3950-5LC01	B3	8EC	7ME3950-5LA13	1
7ED	7ME3950-5LC01	B3	8ED	7ME3950-5LA13	1
7EE	7ME3950-5LC01	B3	8EE	7ME3950-5LA13	1
7EF	7ME3950-5LC01	B3	8EF	7ME3950-5LA13	1
7EG	7ME3950-5LC01	B3	8EG	7ME3950-5LA13	1
7EH	7ME3950-5LC01	B3	8EH	7ME3950-5LA13	1
7EJ	7ME3950-5LC01	B3	8EJ	7ME3950-5LA13	1
7EK	7ME3950-5LC01	B3	8EK	7ME3950-5LA13	1
7FC	7ME3950-5LD00	C3	8FC	7ME3950-5LA23	2
7FD	7ME3950-5LD00	C3	8FD	7ME3950-5LA23	2
7FE	7ME3950-5LD00	C3	8FE	7ME3950-5LA23	2
7FF	7ME3950-5LD00	C3	8FF	7ME3950-5LA23	2
7FG	7ME3950-5LD00	C3	8FG	7ME3950-5LA23	2
7FH	7ME3950-5LD00	C3	8FH	7ME3950-5LA23	2
7FJ	7ME3950-5LD00	C3	8FJ	7ME3950-5LA23	2
7FK	7ME3950-5LD00	C3	8FK	7ME3950-5LA23	2
7GD	7ME3950-5LD00	C3	8GD	7ME3950-5LA23	2
7GE	7ME3950-5LD00	C3	8GE	7ME3950-5LA23	2
7GF	7ME3950-5LD00	C3	8GF	7ME3950-5LA23	2
7GG	7ME3950-5LD00	C3	8GG	7ME3950-5LA23	2
7GH	7ME3950-5LD00	C3	8GH	7ME3950-5LA23	2
7GJ	7ME3950-5LD00	C3	8GJ	7ME3950-5LA23	2
7GK	7ME3950-5LD00	C3	8GK	7ME3950-5LA23	2
7GL	7ME3950-5LD00	C3	8GL	7ME3950-5LA23	2
7HE	7ME3950-5LE00	D3	8HE	7ME3950-5LA43	3
7HF	7ME3950-5LE00	D3	8HF	7ME3950-5LA43	3
7HG	7ME3950-5LE00	D3	8HG	7ME3950-5LA43	3
7HH	7ME3950-5LE00	D3	8HH	7ME3950-5LA43	3
7HJ	7ME3950-5LE00	D3	8HJ	7ME3950-5LA43	3
7HK	7ME3950-5LE00	D3	8HK	7ME3950-5LA43	3
7HL	7ME3950-5LE00	D3	8HL	7ME3950-5LA43	3
7HM	7ME3950-5LE00	D3	8HM	7ME3950-5LA43	3
7JG	7ME3950-5LE00	D3	8JG	7ME3950-5LA43	3
7JH	7ME3950-5LE00	D3	8JH	7ME3950-5LA43	3
7JJ	7ME3950-5LE00	D3	8JJ	7ME3950-5LA43	3
7JK	7ME3950-5LE00	D3	8JK	7ME3950-5LA43	3
7JL	7ME3950-5LE00	D3	8JL	7ME3950-5LA43	3
7JM	7ME3950-5LE00	D3	8JM	7ME3950-5LA43	3
7KH	7ME3950-5LF00	E2	8KH	7ME3950-5LA73	4
7KJ	7ME3950-5LF00	E2	8KJ	7ME3950-5LA73	4
7KK	7ME3950-5LF00	E2	8KK	7ME3950-5LA73	4
7KL	7ME3950-5LF00	E2	8KL	7ME3950-5LA73	4
7KM	7ME3950-5LF00	E2	8KM	7ME3950-5LA73	4
7LJ	7ME3950-5LF00	E2	8LJ	7ME3950-5LA73	4
7LK	7ME3950-5LF00	E2	8LK	7ME3950-5LA73	4
7LL	7ME3950-5LF00	E2	8LL	7ME3950-5LA73	4
7LM	7ME3950-5LF00	E2	8LM	7ME3950-5LA73	4

3

Selection and Ordering data	Article No.
Spare parts (system)	
SITRANS FS230 IP65/IP66 (NEMA 4X)	**7ME 3 9 5 0 -** ■ ■ ■ ■ ■
Approvals	
All, FM/FMc, ATEX, IECEX - Flow sensors	**5**
All, FM/FMc, ATEX, IECEX - Temperature sensors	**1**
Spare sensor code	
For liquid flow sensors pipe ranges please refer to catalog sensor selection chart in the FSS200 section	
Flow sensors for use with mounting frames or tracks Suitable for pipes other than steel or stainless steel.	
Temperature -40 ... +121 °C (-40 ... +250 °F)	
• A1 Universal	**5 L B 1 1**
• A2 Universal	**5 L B 0 1**
• B1 Universal	**5 L C 1 1**
• B2 Universal	**5 L C 2 1**
• B3 Universal	**5 L C 0 1**
• C1 Universal	**5 L D 1 0**
• C2 Universal	**5 L D 2 0**
• C3 Universal	**5 L D 0 0**
• D1 Universal	**5 L E 1 0**
• D2 Universal	**5 L E 2 0**
• D3 Universal	**5 L E 0 0**
• E1 Universal	**5 L F 1 0**
• E2 Universal	**5 L F 0 0**
• E3 Universal	**5 L F 2 0**
Gas and liquid sensors for use with mounting frames or tracks Suitable for steel or stainless steel pipes	
Temperature T1	
• A1H high precision	**5 L G 0 1**
• A2H high precision	**5 L H 0 1**
• A3H high precision	**5 L J 0 1**
• B1H high precision	**5 G K 0 1**
• B2H high precision	**5 G L 0 1**
• B3H high precision	**5 G T 0 1**
• C1H high precision	**5 G M 0 0**
• C2H high precision	**5 G N 0 0**
• D1H high precision	**5 G P 0 0**
• D2H high precision	**5 G Q 0 0**
• D3H high precision	**5 G U 0 0**
• D4H high precision	**5 G R 0 0**
Temperature T2	
• A1H high precision	**5 L G 2 1**
• A2H high precision	**5 L H 2 1**
• A3H high precision	**5 L J 2 1**
• B1H high precision	**5 G K 2 1**
• B2H high precision	**5 G L 2 1**
• B3H high precision	**5 G T 2 1**
• C1H high precision	**5 G M 2 0**
• C2H high precision	**5 G N 2 0**
• D1H high precision	**5 G P 2 0**
• D2H high precision	**5 G Q 2 0**
• D3H high precision	**5 G U 2 0**
• D4H high precision	**5 G R 2 0**

Selection and Ordering data	Article No.
Spare parts (system)	
SITRANS FS230 IP65/IP66 (NEMA 4X)	**7ME 3 9 5 0 -** ■ ■ ■ ■ ■
High temperature universal liquid sensors	
Very high temperature up to 230 °C (446 °F)	
• Size 1 (Ø 12.7 ... 100 mm (0.47 ... 3.94"))	**5 L A 1 3**
• Size 2 (Ø 30 ... 200 mm (1.18 ... 7.87"))	**5 L A 2 3**
• Size 2A (Ø 30 ... 200 mm (1.18 ... 7.87"))	**5 L A 3 3**
• Size 3 (Ø 150 ... 610 mm (5.9 ... 24.0"))	**5 L A 4 3**
• Size 3A (Ø 150 ... 610 mm (5.9 ... 24.0"))	**5 L A 6 3**
• Size 4 (Ø 400 ... 1200 mm (16.75 ... 47.24"))	**5 L A 7 3**
• Size 4A (Ø 400 ... 1200 mm (16.75 ... 47.24"))	**5 L A 8 3**
Standard RTD temperature sensors	
Standard clamp-on RTD	**1 T A 0 0**
Submersible clamp-on RTD	**1 T B 0 0**
Insertion style RTD (size 1), 140 mm (5.5")	**1 T J 0 0**
Insertion style RTD (size 2), 216 mm (8.5")	**1 T J 0 1**
Insertion style RTD (size 3), 292 mm (11.5")	**1 T J 0 2**
Insertion style RTD (size 4), 368 mm (14.5")	**1 T J 0 3**

3

Flow Measurement
SITRANS F S Clamp-on

Ultrasonic flowmeter SITRANS FS230 - Accessories/Spare parts

3

Selection and Ordering data	Article No.
Spare parts (Miscellaneous)	
SITRANS F S Clamp-on	7ME 3 9 6 0 - ▪▪▪▪▪
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.	
FS230 dedicated sensor mounting hardware	
Sensor mounting frames for	
• Universal sensor size B (for pipes > 125 mm (5 inch))	CQO:1012FN-PB
• Universal sensor size C	0 M C 0 0
• Universal sensor size D	0 M C 0 1
• Universal sensor size E	0 M C 0 1
• High precision sensor size B (For pipes > 125 mm (5 inch))	CQO:1012FNH-PB
• High precision sensor size C	3 M D 0 0
• High precision sensor size D	3 M D 0 1
• Magnetic mounting frames for size C, D, E, universal and high precision sensors	3 M D 0 2
Spacer bars (for indexing sensors on pipe)	
Spacer bar for pipes to 200 mm/8 inch (liquid), 600 mm/24 inch (gas)	3 M S 1 0
Spacer bar for pipes to 500 mm/20 inch (liquid), DN 1200/48 inch (gas)	3 M S 2 0
Spacer bar for pipes to 800 mm/32 inch (liquid)	3 M S 3 0
Spacer bar for pipes to 1200 mm/48 inch (liquid). Must be used with 7ME39600SM30	3 M S 4 0
Mounting straps (slotted stainless steel)	
For pipes	
DN 50 ... DN 150	0 S M 0 0
DN 50 ... DN 300	0 S M 1 0
DN 300 ... DN 600	0 S M 2 0
DN 600 ... DN 1200	0 S M 3 0
DN 1200 ... DN 1500	0 S M 4 0
DN 1500 ... DN 2100	0 S M 5 0
DN 2100 ... DN 3000	0 S M 6 0
High precision mounting enclosures for sensors	
Stainless steel mounts for high precision size "C" sensors, single enclosure	0 W S 5 0
Stainless steel mounts for high precision size "D/E" sensors, single enclosure	0 W S 6 0
Stainless steel mounts for high precision size "C" sensors, dual enclosure	0 W D 5 0
Stainless steel mounts for high precision size "D/E" sensors, dual enclosure	0 W D 6 0
Stainless steel bands for high precision mounting enclosures	
Mounting strap for pipe diameter to	
• 300 mm (13")	0 S M 0 1
• 600 mm (24")	0 S M 1 1
• 1200 mm (48")	0 S M 2 1
• 1500 mm (60")	0 S M 3 1
• 2130 mm (84")	0 S M 4 1
• 3050 mm (120")	0 S M 5 1
• 5486 mm (216")	0 S M 6 1
ADAPTER, MTG STRAP, TEMP COMP	CQO-1012WSM-A2
Sensor mounting tracks (aluminum with mounting straps) for pipes < 125 mm (5 inch)	

Selection and Ordering data	Article No.
Spare parts (Miscellaneous)	
SITRANS F S Clamp-on	7ME 3 9 6 0 - ▪▪▪▪▪
Universal sensor size A or B	0 M A 0 0
High precision sensor size A or B	0 M B 0 0
Stainless mounting tracks for high temperature 991 sensors	
Size 1 high temperature sensor pair	CQO: 992MTNHMSH-1
Size 2 high temperature sensor pair	CQO: 992MTNHMSH-2
Size 3 high temperature sensor pair	CQO: 992MTNHMSH-3
Size 4 high temperature sensor pair	CQO: 992MTNHMSH-4
Clamp-on RTD mounting hardware for dedicated systems	
RTD mounting hardware for dedicated system	
• 1152 ... 610 mm (6 ... 24")	0 M R 0 0
• 12.7 ... 50.8 mm (0.5 ... 2")	0 M R 0 1
• 31.8 ... 203.2 mm (1.25 ... 8")	0 M R 0 2
• 508 ... 1219 mm (20 ... 48")	0 M R 0 4
Junction box for clamp on RTD's	CQO:992ECJ
Insert RTD thermowells	
Thermowell standard duty	
• Uninsulated pipe 140 mm (5.5")	CQO:1012TW-1
• Uninsulated pipe 216 mm (8.5")	CQO:1012TW-2
• Uninsulated pipe: 292 mm (11.5")	CQO:1012TW-3
• With lagging 140 mm (5.5")	CQO:1012TW-1L
• With lagging 216 mm (8.5")	CQO:1012TW-2L
• With lagging 292 mm (11.5")	CQO:1012TW-3L
Sensor cables	
Coax (CE mark)	
• 10 m (32.8 ft) armored sensor cable pair with nickel plated brass glands	A5E38028474004
• 20 m (65.6 ft) armored sensor cable pair with nickel plated brass glands	A5E38028474005
• 10 m (32.8 ft) standard/submersible Coax sensor cable pair with Nylon glands	A5E39669934004
• 20 m (65.6 ft) standard/submersible Coax sensor cable pair with Nylon glands	A5E39669934005
• 10 m (32.8 ft) standard/submersible Coax sensor cable pair with nickel plated brass glands	A5E39669934009
• 20 m (65.6 ft) standard/submersible Coax sensor cable pair with nickel plated brass glands	A5E39669934010
• 10 m (32.8 ft) standard/submersible Coax sensor cable pair with stainless steel glands	A5E39669934014
• 20 m (65.6 ft) standard/submersible Coax sensor cable pair with stainless steel glands	A5E39669934015
• 20 m (65.6 ft) plenum rated Coax sensor cable pair with Nylon glands	A5E39669934020
• 20 m (65.6 ft) plenum rated Coax sensor cable pair with nickel plated brass glands	A5E39669934025
• 20 m (65.6 ft) plenum rated Coax sensor cable pair with stainless steel glands	A5E39669934030

Selection and Ordering data	Article No.
Spare parts (Miscellaneous)	
SITRANS F S Clamp-on	**7ME 3 9 6 0 -** ▪▪▪▪▪
Cable glands and adapters	
Cable gland set M20, nylon	**A5E38145321**
Cable gland set M20, nickel/brass	**A5E38145323**
Cable gland set M20, stainless steel	**A5E38145327**
Iris glands, set of 2, nickel plated brass	**A5E38635890**
Iris glands, set of 2, stainless steel	**A5E38635986**
M20xNPT adapters, set of 8, brass/nickel	**A5E38145635**
M20xNPT adapters, set of 8, brass/nickel, Ex	**A5E38309159**
M20xNPT adapters, set of 8, stainless steel	**A5E38145643**
RTD temperature sensor cables	
6 m (20 ft) standard RTD cable	**0 C R 5 0**
15 m (50 ft) standard RTD cable	**0 C R 5 1**
30 m (100 ft) standard RTD cable	**0 C R 5 2**
46 m (150 ft) standard RTD cable	**0 C R 5 3**
61 m (200 ft) standard RTD cable	**0 C R 5 4**
91 m (300 ft) standard RTD cable	**0 C R 5 5**
6 m (20 ft) submersible RTD cable	**0 C R 5 6**
15 m (50 ft) submersible RTD cable	**0 C R 5 7**
30 m (100 ft) submersible RTD cable	**0 C R 5 8**
46 m (150 ft) submersible RTD cable	**0 C R 5 9**
61 m (200 ft) submersible RTD cable	**0 C R 6 0**
91 m (300 ft) submersible RTD cable	**0 C R 6 1**
Dedicated cable termination kits for:	
Standard, plenum sensor cable (NEMA 4X and NEMA 7 wall)	**0 C T 0 1**
Submersible sensor cable (NEMA 4X and NEMA 7 wall)	**0 C T 1 1**
Clamp-on RTD cable termination kit for standard RTD	**0 C T 2 1**
Clamp-on RTD cable termination kit for submersible RTD	**0 C T 3 1**
Insert RTD cable termination kit	**0 C T 4 1**
Termination kit for armored cable	**CQO:1012CNFX-TK**
Ultrasonic couplants	
Temporary water based for portable systems: 350 ml (12 oz): -34 ... +38 °C (-30 ... +100 °F)	**0 U C 1 0**
Permanent synthetic polymer based: 90 ml (3 oz) -40 ... +190 °C (-40 ... +375 °F)	**0 U C 1 0**
Dry coupling pad kit (10 pieces)	**0 U C 1 0**
Permanent high temperature fluoroether: 163 ml (5.5 oz): -40 ... +230 °C (-40 ... +450 °F)	**0 U C 1 0**
Permanent vulcanizing silicone rubber couplant: 90 ml (3 oz): -40…+120C (-40…+250F)	**CQO:CC112**
Permanent high temperature silicone grease: 12 ml (0.4 oz): -40 ... +230 °C (-40 ... +450 °F)	**CQO:CC117B**
Permanent high temperature silicone grease: 150 ml (5 oz): -40 ... +230 °C (-40 ... +450 °F)	**CQO:CC117A**
Couplant for submersible sensor applications	**CQO:CC120**
Pipe damping films	
B1, B2, B3, C1 and C2 sensors	**0 D M 1 0**
D1 and D3 sensors	**0 D M 2 0**
D2 sensor	**0 D M 3 0**
D4 sensor	**0 D M 4 0**

Selection and Ordering data	Article No.
Spare parts (Miscellaneous)	
SITRANS F S Clamp-on	**7ME 3 9 6 0 -** ▪▪▪▪▪
Universal sensor test blocks	
Test block for size A and B universal sensors	**0 T B 1 0**
Test block for size C and D universal sensors	**0 T B 2 0**
Thickness gauge	
Stand alone thickness gauge	**7ME39510TG20**

3