

Overview



The complete flowmeter system SITRANS FC430 can be ordered for standard, hygienic or NAMUR service. All versions can be ordered for CT service, according to OIML R 117 (Liquids other than water).

SIL specified compact variants can be validated and configured for SIL 2 or SIL 3 operation. SIL 3 operation requires two flowmeters in series and monitored by a SIL-rated control system. Series mounting must not introduce cross-talk between the sensors. Refer to installation guidelines.

The flowmeter is based on the latest developments within digital signal processing technology – engineered for high measuring performance:

- Fast response to rapid changes in flow
- Fast dosing applications
- High immunity against process noise
- High turndown ratio of flowrates
- Suitable for liquid and gas service
- Easy to install, commission and maintain

FC430 is available as standard with 4 to 20 mA analog output with HART 7.2. Additional functions can be freely configured for analog, pulse, frequency, relay or status output or binary input.

The transmitter comes with a user-configurable graphical display and SensorFlash, a micro SD card for configuration backup, firmware update and data storage.

The SITRANS FC430 flowmeter system consists of a SITRANS FCS400 sensor and a SITRANS FCT030 transmitter.

Benefits

- It is narrow and light, fitting neatly into dense piping arrangements
- Easy maintenance because modules can be exchanged rapidly
- Effective separation of measurement from plant vibration
- Highly secure operation in safety critical applications
- Non-volatile memory of all setup and operation data
- Reliable measurements due to high signal to noise ratio
- Secure, digital transfer of measurement data from the sensor
- Short overall length; easy drop-in replacement into most existing installations
- Functional Safety (SIL X). Device suitable for use in accordance with IEC 61508 and IEC 61511.

Technical specifications

Sizes	DN 15 (½"), DN 25 (1"), DN 50 (2"), DN 80 (3")
Accuracy	± 0.10 %
Repeatability	± 0.05 %
Flow range (water @ 1 bar pressure loss)	DN 15: 3 700 kg/h (8 157 lb/h) DN 25: 11 500 kg/h (25 353 lb/h) DN 50: 52 000 kg/h (114 640 lb/h) DN 80: 136 000 kg/h (300 000 lb/h)
Architecture	Compact or remote configuration with selection of twelve languages including Chinese and Russian
Display	Full graphical display, 240 x 160 pixels
Power supply	20 ... 27 V DC ± 10%; 100 ... 240 V AC ± 10 %, 47 ... 63 Hz ± 10%
Weight	4.6 ... 50 kg
Material	<ul style="list-style-type: none"> • Sensor <ul style="list-style-type: none"> - Wetted parts - Enclosure • Transmitter
	316L stainless steel or Hastelloy C22 304 stainless steel Aluminum with corrosion-resistant coating
Enclosure rating	IP67
Pressure ratings	<ul style="list-style-type: none"> • Measuring tubes <ul style="list-style-type: none"> - 316L - Hastelloy C22 • Sensor enclosure • Sensor enclosure burst pressure
	100 bar (1450 psi) 160 bar (2321 psi) 20 bar (DN15, DN 25) 17 bar (DN 50, DN 80) >160 bar (all sizes)
Temperature ratings	<ul style="list-style-type: none"> • Process medium • Ambient • Display
	-50 ... +200 °C (-58 ... +392 °F) -40 ... +60 °C (-40 ... +140 °F) -20 ... +60 °C (-4 ... +140 °F)
Process connections	<ul style="list-style-type: none"> • Flanges • Pipe threads • Hygienic threads • Hygienic clamps
	EN 1092-1 B1, EN 1092-1 D, ANSI/ASME B16.5, JIS B 2220, DIN 11864-2 ASME B1.20 (NPT), ISO228-1 G (BSPP), VCO Quick-connect DIN 11851, DIN 11864-1A, ISO 2853, SMS 1145 DIN 11864-3A, DIN 32676, ISO 2852
Approvals	<ul style="list-style-type: none"> • Hazardous area • Pressure equipment • Hygienic • Custody transfer • Operational safety (compact system only)
	ATEX, IECEx, FM, NEPSI, CSA, INMETRO PED, CRN 3A, EHEDG OIML R 117 SIL 2 Single SIL 3 Redundant system
NAMUR	NAMUR-compliant (e.g. NE 21, NE 41 and NE 132)
I/O	Up to 4 channels combining analog, relay or digital outputs and binary input
Communication	HART 7.2
EMC performance	<ul style="list-style-type: none"> Emission Immunity
	EN 55011/CISPR-11 (Class A) EN/IEC 61236-1 (Industry)
Mechanical load	18 to 400 Hz random The flow meter will mechanically tolerate 3.17 g RMS in all directions. Flow accuracy cannot be guaranteed under all conditions.

Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430

Selection and Ordering data

SITRANS FC430 Digital coriolis flowmeter with SITRANS FCS400 Standard flow sensor with hygienic and flange/pipe thread connections and compact or remote mounting with FCT030 transmitter

Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Sensor size, connection size

Article No.	Ord. code
7ME4613-	
DN 15, DN 10 (1/2", 3/8")	3 F
DN 15, DN 15 (1/2", 1/2")	3 G
DN 15, DN 20 (1/2", 3/4")	3 H
DN 15, DN 25 (1/2", 1")	3 J
DN 25, DN 15 (1", 1/2")	3 K
DN 25, DN 25 (1", 1")	3 L
DN 25, DN 40 (1", 1 1/2")	3 N
DN 50, DN 40 (2", 1 1/2")	4 B
DN 50, DN 50 (2", 2")	4 C
DN 80, DN 65 (3", 2 1/2")	4 J
DN 80, DN 80 (3", 3")	4 K
DN 80, DN 100 (3", 4")	4 L

Process connection

Article No.	Ord. code
EN 1092-1 B1, PN 16	A 0
EN 1092-1 B1, PN 40	A 1
EN 1092-1 B1, PN 63	A 2
EN 1092-1 B1, PN 100	A 3
EN 1092-1 B1, PN 160	B 1
EN 1092-1 D NUT, PN 40	A 5
EN 1092-1 D NUT, PN 63	A 6
EN 1092-1 D NUT, PN 100	A 7
EN 1092-1 D NUT, PN 160	A 8
ANSI B16.5-2009, class 150	D 1
ANSI B16.5-2009, class 300	D 2
ANSI B16.5-2009, class 600	D 3
ANSI B16.5-2009, class 900	D 4
ISO228-1 G pipe thread	E 1
ASME B1.20.1 NPT pipe thread	E 3
DIN 11851 hygienic screwed	F 1
DIN 32676 hygienic Tri-Clamp	G 1
DIN 11864-1A aseptic screwed	H 1
DIN 11864-2A aseptic flanged	H 2
DIN 11864-3A clamped	H 3
ISO 2852 hygienic clamped	J 1
ISO 2853 hygienic screwed	J 5
SMS 1145 hygienic screwed	K 1
12-VCO-4 quick connect	K 5
JIS B2200:2004/10K	L 2
JIS B2220:2004/20K	L 4
JIS B2220:2004/40K	L 6
JIS B2220:2004/63K	L 7

Wetted parts material

AISI 316L/W1.4435/W1.4404 (100 barg max.)	1
Hastelloy C22 (only for 7ME461)	3

Calibration/Accuracy class

0.1 % flow, 5 kg/m ³ density	1
0.1 % flow, 1 kg/m ³ density	4
Standard fraction calibration	8

Transmitter/DSL material & mounting style

Compact, IP67, aluminum	D
Remote, IP67, aluminum, M12	G
Remote, IP67, aluminum, T/Box	K

Selection and Ordering data

SITRANS FC430 Digital coriolis flowmeter with SITRANS FCS400 Standard flow sensor with hygienic and flange/pipe thread connections and compact or remote mounting with FCT030 transmitter

Ex approval

Non-Ex	◆	A
ATEX II 2GD	◆	C
IECEx GDb	◆	F
FM, Class 1, Div 1	◆	H
CSA, Class 1, Zone 1	◆	M

Local User Interface

Blind	◆	1
Graphical, 240 x 160 pxl	◆	3

◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.

Selection and Ordering data

Order code

Further designs

Please add "-Z" to Article No. and specify Order code(s).

Cable glands

Metric, no glands	◆	A01
Metric, plastic	◆	A02
Metric, brass/Ni plated		A05
Metric, stainless steel		A06
NPT, no glands		A11
NPT, Plastic		A12
NPT, brass/Ni plated		A15
NPT, stainless steel		A16

Software functions and CT approvals

Standard	◆	B11
CT standard		B31

I/O configuration Ch1

Ca 4 ... 20 mA HART active SIL certified	◆	E04
Cp 4 ... 20 mA HART passive SIL certified	◆	E05
Ca 4 ... 20 mA HART active	◆	E06
Cp 4 ... 20 mA HART passive	◆	E07

Only compact versions can be used in SIL applications.

Selection and Ordering data	Order code	Selection and Ordering data	Order code
I/O configuration Ch2, Ch3 and Ch4		Add-on options and accessories	
None	◆ F00	Please add "-Z" to Article No. and specify Order code(s).	
aSignal, None, None	F40	Certificates	
aSignal, aSignal, None	F41	Pressure test certificate CRN	C01
aSignal, aSignal, aSignal	F42	Pressure test certificate PED	C02
aSignal, aSignal, Ia	F43	Material certificate EN 10204-3.1	C05
aSignal, aSignal, R	F44	Welding inspection report	C07
aSignal, Ia, None	F45	Factory certificate to EN 10204 2.1	◆ C10
aSignal, Ia, Ia	F46	Factory certificate to EN 10204 2.2	C11
aSignal, Ia, R	F47	Cable	
aSignal, R, None	F50	None	L50
aSignal, R, R	F51	5 m (16.4 ft), standard with M12 plugs fitted	L51
pSignal, None, None	F60	5 m (16.4 ft), standard	L52
pSignal, pSignal, None	F61	10 m (32.8 ft) standard with M12 plugs fitted	L55
pSignal, pSignal, pSignal	F62	10 m (32.8 ft), standard	L56
pSignal, pSignal, Ip	F63	25 m (82 ft), standard with M12 plugs fitted	L59
pSignal, pSignal, R	F64	25 m (82 ft), standard	L60
pSignal, Ip, None	F65	50 m (164 ft), standard with M12 plugs fitted	L63
pSignal, Ip, Ip	F66	50 m (164 ft), standard	L64
pSignal, Ip, R	F67	75 m (246 ft), standard with M12 plugs fitted	L67
pSignal, R, None	F70	75 m (246 ft), standard	L68
pSignal, R, R	F71	150 m (492 ft), standard with M12 plugs fitted	L71
aSignal, aSignal, pSignal	F80	150 m (492 ft), standard	L72
aSignal, aSignal, Ip	F81	Additional data	
aSignal, pSignal, None	F82	Please add "-Z" to Article No. and specify Order code(s) and plain text.	
aSignal, pSignal, pSignal	F83	Tag name	
aSignal, pSignal, Ia	F84	Tag name plate, stainless steel	Y17
aSignal, pSignal, Ip	F85	◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.	
aSignal, pSignal, R	F86	Operating instructions for SITRANS FC430	
aSignal, Ia, Ip	F87	Description	Article No.
aSignal, Ip, None	F90	• English	A5E03361511
aSignal, Ip, Ip	F91	• German	A5E03651143
aSignal, Ip, R	F92	• Spanish	A5E03651152
pSignal, pSignal, Ia	F93	• French	A5E03651188
pSignal, Ia, None	F94	• Italian	A5E03651190
pSignal, Ia, Ia	F95	• Chinese	A5E03922773
pSignal, Ia, Ip	F96	This device is shipped with a Quick Start guide and a CD containing further SITRANS F C literature.	
pSignal, Ia, R	F97	All literature is also available for free at: http://www.siemens.com/flowdocumentation	
Notes on I/O configurations:			
a or p suffix: The I/O module is selected at ordering with either active or passive function.			
Signal: The output can be selected for Current (0 or 4 to 20 mA), frequency or pulse function in the menu.			
I: Discrete status input to the flowmeter. Functions are selected in the menu including 'Freeze output', 'Reset totalizer'.			
R: Relay output for discrete status reporting. Function is selected in the menu, including 'Error', 'High flow warning'.			
The MLFB structure for FC430 systems must be filled to this level , including "-Z" options A., B., E. and F.			

Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430

Selection and Ordering data	Article No.	Ord. code
SITRANS FC430 Digital coriolis flowmeter	7ME 4 6 2 3 -	
with SITRANS FCS400 Flow sensor		
Hygienic version with Ra < 0.8 µm, 3A approved, and compact or remote mounting with FCT030 transmitter		
➤ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Sensor size, connection size		
DN 15, DN 10 (½", 3/8")	3 F	
DN 15, DN 15 (½", ½")	3 G	
DN 15, DN 20 (½", ¾")	3 H	
DN 15, DN 25 (½", 1")	3 J	
DN 25, DN 25 (1", 1")	3 L	
DN 25, DN 32 (1", 1¼")	3 M	
DN 25, DN 40 (1", 1½")	3 N	
DN 50, DN 40 (2", 1½")	4 B	
DN 50, DN 50 (2", 2")	4 C	
DN 80, DN 65 (3", 2½")	4 J	
DN 80, DN 80 (3", 3")	4 K	
Process connection		
DIN 11851 0.8 µm hygienic screwed	F 1	
DIN 32676 0.8 µm hygienic Tri-Clamp	G 1	
DIN 11864-1 0.8 µm hygienic screwed	H 1	
DIN 11864-2A BF-A 0.8 µm hygienic screwed (metric)	H 2	
DIN 11864-3A BF-A 0.8 µm hygienic clamped	H 3	
DIN 11864-2B BF-A 0.8 µm hygienic flanged (NPS)	H 4	
ISO 2852 0.8 µm hygienic clamped	J 1	
ISO 2853 0.8 µm hygienic screwed	J 5	
Wetted parts material		
AISI 316L/1.4435 (40 bar max.)	1	
Calibration/Accuracy class		
0.1 % flow, 5 kg/m³ density	1	
0.1 % flow, 1 kg/m³ density	4	
Standard fraction calibration	8	
Transmitter/DSL material and mounting style		
Compact, IP67, aluminum	D	
Remote, IP67, aluminum, M12	G	
Remote, IP67, aluminum, T/Box	K	
Ex approval		
Non-Ex	A	
ATEX II 2GD	C	
IECEX GDb	F	
FM, Class 1, Div 1	H	
CSA, Class 1, Zone 1	M	
Local User Interface		
Blind	1	
Graphical, 240 x 160 pxl	3	

➤ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ⚡. For details see page 9/5 in the appendix.

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
Cable glands	
Metric, no glands	⚡ A01
Metric, plastic	⚡ A02
Metric, brass/Ni plated	A05
Metric, stainless steel	⚡ A06
NPT, no glands	A11
NPT, plastic	A12
NPT, brass/Ni plated	A15
NPT, stainless steel	A16
Software functions and CT approvals	
Standard	⚡ B11
CT standard	B31
I/O configuration Ch1	
Ca 4 ... 20 mA HART active SIL certified	⚡ E04
Cp 4 ... 20 mA HART passive SIL certified	⚡ E05
Ca 4 ... 20 mA HART active	⚡ E06
Cp 4 ... 20 mA HART passive	⚡ E07
Only compact versions can be used in SIL applications.	

Selection and Ordering data	Order code	Selection and Ordering data	Order code
I/O configuration Ch2, Ch3 and Ch4		Add-on options and accessories	
None	◆ F00	Please add "-Z" to Article No. and specify Order code(s).	
aSignal, None, None	F40	Certificates	
aSignal, aSignal, None	F41	Pressure test certificate CRN	C01
aSignal, aSignal, aSignal	F42	Pressure test certificate PED	C02
aSignal, aSignal, Ia	F43	Material certificate EN 10204-3.1	C05
aSignal, aSignal, R	F44	Welding inspection report	C07
aSignal, Ia, None	F45	Factory certificate to EN 10204 2.1	◆ C10
aSignal, Ia, Ia	F46	Factory certificate to EN 10204 2.2	C11
aSignal, Ia, R	F47	Cable	
aSignal, R, None	F50	None	L50
aSignal, R, R	F51	5 m (16.4 ft), standard with M12 plugs fitted	L51
pSignal, None, None	F60	5 m (16.4 ft), standard	L52
pSignal, pSignal, None	F61	10 m (32.8 ft) standard with M12 plugs fitted	L55
pSignal, pSignal, pSignal	F62	10 m (32.8 ft), standard	L56
pSignal, pSignal, Ip	F63	25 m (82 ft), standard with M12 plugs fitted	L59
pSignal, pSignal, R	F64	25 m (82 ft), standard	L60
pSignal, Ip, None	F65	50 m (164 ft), standard with M12 plugs fitted	L63
pSignal, Ip, Ip	F66	50 m (164 ft), standard	L64
pSignal, Ip, R	F67	75 m (246 ft), standard with M12 plugs fitted	L67
pSignal, R, None	F70	75 m (246 ft), standard	L68
pSignal, R, R	F71	150 m (492 ft), standard with M12 plugs fitted	L71
aSignal, aSignal, pSignal	F80	150 m (492 ft), standard	L72
aSignal, aSignal, Ip	F81	Additional data	
aSignal, pSignal, None	F82	Please add "-Z" to Article No. and specify Order code(s) and plain text.	
aSignal, pSignal, pSignal	F83	Tag name	
aSignal, pSignal, Ia	F84	Tag name plate, stainless steel	Y17
aSignal, pSignal, Ip	F85	◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.	
aSignal, pSignal, R	F86	Operating instructions for SITRANS FC430	
aSignal, Ia, Ip	F87	Description	Article No.
aSignal, Ip, None	F90	• English	A5E03361511
aSignal, Ip, Ip	F91	• German	A5E03651143
aSignal, Ip, R	F92	• Spanish	A5E03651152
pSignal, pSignal, Ia	F93	• French	A5E03651188
pSignal, Ia, None	F94	• Italian	A5E03651190
pSignal, Ia, Ia	F95	• Chinese	A5E03922773
pSignal, Ia, Ip	F96	This device is shipped with a Quick Start guide and a CD containing further SITRANS F C literature.	
pSignal, Ia, R	F97	All literature is also available for free at: http://www.siemens.com/flowdocumentation	
Notes on I/O configurations:			
a or p suffix: The I/O module is selected at ordering with either active or passive function.			
Signal: The output can be selected for Current (0 or 4 to 20 mA), frequency or pulse function in the menu.			
I: Discrete status input to the flowmeter. Functions are selected in the menu including 'Freeze output', 'Reset totalizer'.			
R: Relay output for discrete status reporting. Function is selected in the menu, including 'Error', 'High flow warning'.			
The MLFB structure for FC430 systems must be filled to this level , including "-Z" options A., B., E.. and F..			

Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430












Selection and Ordering data	Article No.	Ord. code
SITRANS FC430 Digital coriolis flowmeter with SITRANS FCS400 NAMUR compliant flow sensor with flange/pipe thread connections and compact or remote mounting with FCT030 transmitter	7ME 4 7 1 3 -	
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
Sensor size, Connection size		
DN 15, DN 6 (½", ¼")	3 E	
DN 15, DN 10 (½", 3/8")	3 F	
DN 15, DN 15 (½", ½")	3 G	
DN 15, DN 20 (½", ¾")	3 H	
DN 15, DN 25 (½", 1")	3 J	
DN 25, DN 25 (1", 1")	3 L	
DN 25, DN 32 (1", 1¼")	3 M	
DN 25, DN 40 (1", 1½")	3 N	
DN 50, DN 40 (2", 1½")	4 B	
DN 50, DN 50 (2", 2")	4 C	
DN 80, DN 65 (3", 2½")	4 J	
DN 80, DN 80 (3", 3")	4 K	
DN 80, DN 100 (3", 4")	4 L	
Process connection		
EN 1092-1 B1, PN 16	A 0	
EN 1092-1 B1, PN 40	A 1	
EN 1092-1 B1, PN 63	A 2	
EN 1092-1 B1, PN 100	A 3	
EN 1092-1 B1, PN 160	B 1	
EN 1092-1 D, PN 40	A 5	
EN 1092-1 D, PN 63	A 6	
EN 1092-1 D, PN 100	A 7	
EN 1092-1 D, PN 160	A 8	
ANSI B16.5, RF, class 150	D 1	
ANSI B16.5, RF, class 300	D 2	
ANSI B16.5, RF, class 600	D 3	
ANSI B16.5, RF, class 900	D 4	
ISO228-1 G pipe thread	E 1	
ASME B1.20.1 NPT pipe thread	E 3	
DIN 11851 Hygienic screwed	F 1	
DIN 32676-C (inch) Hygienic clamped	G 1	
DIN 11864-1 Hygienic screwed	H 1	
DIN 11864-2A BF-A Hygienic flanged metric	H 2	
DIN 11864-3A Hygienic clamped	H 3	
DIN 11864-2B BF-A Hygienic flanged NPS	H 4	
ISO 2852 Hygienic clamped	J 1	
ISO 2853 Hygienic screwed	J 5	
SMS 1145 Hygienic screwed	K 1	
Swagelok Quick Connect	K 5	
JIS B2200/10K	L 2	
JIS B2200/20K	L 4	
JIS B2200/40K	L 6	
JIS B2200/63K	L 7	
Wetted parts material		
AISI 316L/W1.4435/W1.4404 (100 barg max.)	1	
Calibration/Accuracy class		
0.1 % flow, 5 kg/m³ density	1	
0.1 % flow, 1 kg/m³ density	4	
Standard fraction calibration	8	
Transmitter/DSL material & mounting style		
Compact, IP67, aluminum	D	
Remote, IP67, aluminum, M12	G	
Remote, IP67, aluminum, T/Box	K	






Selection and Ordering data	Article No.	Ord. code
SITRANS FC430 Digital coriolis flowmeter with SITRANS FCS400 NAMUR compliant flow sensor with flange/pipe thread connections and compact or remote mounting with FCT030 transmitter	7ME 4 7 1 3 -	
Ex approval		
Non-Ex	•	A
ATEX II 2GD	•	C
IECEx GDb	•	F
FM, Class 1, Div 1	•	H
CSA, Class 1, Zone 1	•	M
Local User Interface		
Blind	•	1
Graphical, 240 x 160 pxl	•	3
• We can offer shorter delivery times for configurations designated with the Quick Ship Symbol •. For details see page 9/5 in the appendix.		

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Article No. and specify Order code(s).	
Cable glands	
Metric, no glands	• A01
Metric, plastic	• A02
Metric, brass/Ni plated	• A05
Metric, stainless steel	• A06
NPT, no glands	A11
NPT, plastic	A12
NPT, brass/Ni plated	A15
NPT, stainless steel	A16
Software functions and CT approvals	
Standard	• B11
CT standard	B31
I/O configuration Ch1	
Ca 4 ... 20 mA HART active, SIL certified	• E04
Cp 4 ... 20 mA HART passive, SIL certified	• E05
Ca 4 ... 20 mA HART active	• E06
Cp 4 ... 20 mA HART passive	• E07
Only compact versions can be used in SIL applications.	

Selection and Ordering data	Order code	Selection and Ordering data	Order code
I/O configuration Ch2, Ch3 and Ch4		Add-on options and accessories	
None	◆ F00	Please add "-Z" to Article No. and specify Order code(s).	
aSignal, None, None	F40	Certificates	
aSignal, aSignal, None	F41	Pressure test certificate CRN	C01
aSignal, aSignal, aSignal	F42	Pressure test certificate PED	C02
aSignal, aSignal, Ia	F43	Material certificate EN 10204-3.1	C05
aSignal, aSignal, R	F44	Welding inspection report	C07
aSignal, Ia, None	F45	Factory certificate to EN 10204 2.1	◆ C10
aSignal, Ia, Ia	F46	Factory certificate to EN 10204 2.2	C11
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aSignal, R, None	F50	None	L50
aSignal, R, R	F51	5 m (16.4 ft), standard with M12 plugs fitted	L51
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pSignal, Ip, R	F67	75 m (246 ft), standard with M12 plugs fitted	L67
pSignal, R, None	F70	75 m (246 ft), standard	L68
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aSignal, Ia, Ip	F87	Description	Article No.
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aSignal, Ip, Ip	F91	• German	A5E03651143
aSignal, Ip, R	F92	• Spanish	A5E03651152
pSignal, pSignal, Ia	F93	• French	A5E03651188
pSignal, Ia, None	F94	• Italian	A5E03651190
pSignal, Ia, Ia	F95	• Chinese	A5E03922773
pSignal, Ia, Ip	F96		
pSignal, Ia, R	F97		
Notes on I/O configurations:		This device is shipped with a Quick Start guide and a CD containing further SITRANS F C literature.	
a or p suffix: The I/O module is selected at ordering with either active or passive function.		All literature is also available for free at: http://www.siemens.com/flowdocumentation	
Signal: The output can be selected for Current (0 or 4 to 20 mA), frequency or pulse function in the menu.			
I: Discrete status input to the flowmeter. Functions are selected in the menu including 'Freeze output', 'Reset totalizer'.			
R: Relay output for discrete status reporting. Function is selected in the menu, including 'Error', 'High flow warning'.			
The MLFB structure for FC430 systems must be filled to this level , including "-Z" options A..., B..., E... and F...			

Accessories



Description	Article No.	
CT plug Tampor cover for CT locking. Fits over the M12 plug at both sensor and transmitter ends of the remote system cable	A5E31478498	
Bag of glands (metric) in black plastic ¹⁾	A5E03907414	
Bag of glands, (metric) in gray plastic Ex e/i ¹⁾	A5E03907424	
Bag of glands (metric) in AISI 316 SS Ex e/i ¹⁾	A5E03907429	
Bag of glands (metric) in NiPlatedBrass Ex e/i ¹⁾	A5E03907430	
Bag of glands (NPT) in black plastic ²⁾	A5E03907435	
Bag of glands (NPT) in gray plastic Ex e/i ²⁾	A5E03907451	
Bag of glands (NPT) in AISI 316 SS Ex e/i ²⁾	A5E03907467	
Bag of glands (NPT) in NiPlatedBrass Ex e/i ²⁾	A5E03907473	
Standard cable (non-Ex) with M12 plugs, PO insulation and PUR sleeve, gray, -40 ... +80 °C (-40 ... +176 °F)		
• 5 m (16.4 ft)	A5E03914805	
• 10 m (32.8 ft)	A5E03914850	
• 25 m (82 ft)	A5E03914853	
• 50 m (164 ft)	A5E03914859	
• 75 m (246 ft)	A5E03914861	
• 150 m (492 ft)	A5E03914874	
Standard cable (non-Ex) for termination, PO insulation and PUR sleeve, gray, -40 ... +80 °C (-40 ... +176 °F)		
• 5 m (16.4 ft)	A5E03914833	
• 10 m (32.8 ft)	A5E03914849	
• 25 m (82 ft)	A5E03914854	
• 50 m (164 ft)	A5E03914856	
• 75 m (246 ft)	A5E03914864	
• 150 m (492 ft)	A5E03914873	

Description	Article No.	
Standard cable (Ex) with M12 plugs, PO insulation and PUR sleeve, blue, -40 ... +80 °C (-40 ... +176 °F)		
• 5 m	A5E03914929	
• 10 m	A5E03914962	
• 25 m	A5E03914995	
• 50 m	A5E03915004	
• 75 m	A5E03915074	
• 150 m	A5E03915088	
Standard cable (Ex) for termination, PO insulation and PUR sleeve, blue, -40 ... +80 °C (-40 ... +176 °F)		
• 5 m	A5E03914945	
• 10 m	A5E03914973	
• 25 m	A5E03914984	
• 50 m	A5E03915015	
• 75 m	A5E03915057	
• 150 m	A5E03915100	
Suitcase for comprehensive sales support and training for FC430	A5E31467598	
It comes in a special suitcase with a fan implemented that allows the flowmeter to demonstrate airflow.		
Suitcase for comprehensive sales support and training for FC410.	A5E33219071	
It comes in a special suitcase with an S7-1200 PLC and HMI touch-screen display. The operating code is open-source and can be copied to customers to assist with system integration.		
Service toolkit for field maintenance of transmitter and sensor components. Contains all hand tools necessary for maintenance. Other tools may be required for installation.	A5E03722877	

Flow Measurement

SITRANS F C

Flowmeter - Accessories/Spare parts


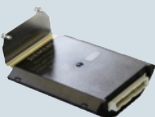
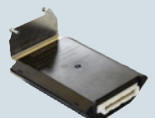








Description	Article No.	
Heating Jacket, indoor use, 0 ... 200 °C (32 ... 392 °F) max. temperature. Complete with 5 m (16.4 ft) high temperature cable fitted. Dedicated plug connection to controller • 230 V AC - DN 15 electric - DN 25 electric - DN 50 electric - DN 80 electric • 115 V AC - DN 15 electric - DN 25 electric - DN 50 electric - DN 80 electric	A5E33035287 A5E33035324 A5E33035325 A5E33035336 A5E32877520 A5E32877556 A5E32877557 A5E32877561	
Heating jacket controller, IP65. Digital display for 0 ... 200 °C (32 ... 392 °F) control setpoint • 230 V AC • 115 V AC	A5E03839193 A5E03839194	


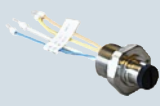



¹⁾ 2 pcs M20; 1 pce M25 with single and dual cable inserts

²⁾ 2 pcs ½" NPT; 1 pce ½" NPT with single and dual cable inserts






Description	Dimension	Article No.
Mating parts for hygienic fittings DIN 11851 Includes: • 2 unions • 2 mating parts (for welding in) • 2 EPDM gaskets	DN 10	FDK:085U1016
	DN 15	FDK:085U1017
	DN 25	FDK:085U1019
	DN 32	FDK:085U1020
	DN 40	FDK:085U1021
	DN 50	FDK:085U1022
Mating parts for hygienic clamp ISO 2852 Includes: • 2 clamps • 2 mating parts • 2 EPDM gaskets	25 mm	FDK:085U1029
	40 mm	FDK:085U1031
	50 mm	FDK:085U1032
2 EPDM gaskets with collar for mounting set DIN 11851	DN 10	FDK:085U1006
	DN 15	FDK:085U1007
	DN 25	FDK:085U1009
	DN 32	FDK:085U1010
	DN 40	FDK:085U1011
	DN 50	FDK:085U1012
	DN 65	FDK:085U1013

Spare parts - transmitter FCT030

Description	Article No.	
Display and keypad assembly with firewire connection to the transmitter module ¹⁾	A5E03548971	
Sensor interface (Compact). Front end flow calculator and process detection. SIL 3 approved ¹⁾	A5E03549142	
Sensor interface (Remote); barrier unit for high speed digital communication and Ex ib power supply to remote front end DSL module	A5E03549098	
Display lid in painted aluminum with Ex glass plate and o-ring seal	A5E03549344	
Transmitter cassette (active) with SIL approved 4 ... 20 mA output and HART 7.2 ¹⁾	A5E03549357	
Transmitter cassette (passive) with SIL approved 4 ... 20 mA output and HART 7.2 ¹⁾	A5E03549383	
Bag of loose spare parts; including cable strain relief components, mounting tool, seals and gasket, assorted screws and washers, hex cap nut, blind plugs, and o-rings	A5E03549396	
Power supply 240 V AC, 47 ... 63 Hz 24 ... 90 V DC	A5E03549413	
Blind lid in painted aluminum with o-ring seal	A5E03549429	
I/O assembly Advise Order code F00 to F97 from Selection and Ordering data ²⁾	A5E03939114	
SensorFlash (micro SD card)	A5E03915258	

Description	Article No.	
Mounting bracket - FCT030; in painted aluminum for pipe or wall mounting of transmitter FCT030 remote version. Including lock ring, pressure pads and seal cap	A5E03906091	
M12 option for sensor housing in stainless steel. Pre-wired and potted to replace M12 socket in DSL housing	A5E03906095	
M12 option - remote - in painted aluminum. Pre-wired and potted replacement M12 connection for FCT030 transmitter remote version	A5E03906104	
Remote terminal house - M20	A5E03906112	
Remote terminal house - NPT - in painted aluminum for sensor cable termination at FCT030 transmitter remote version. Pre-wired and potted	A5E03906130	

Spare parts - sensor FCS400

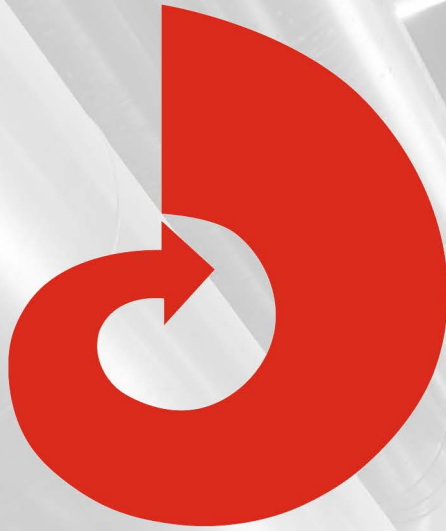
Description	Article No.	
Blind lid in painted aluminum with o-ring seal	A5E03549295	
Frontend cassette Spare part frontend cassette for remote version of FC430 and cassette for FC410 ¹⁾	A5E03549191	
Sensor housing metric	A5E03549313	
Sensor housing NPT in painted aluminum	A5E03906080	
Bag of loose parts for sensor; including cable strain relief components, washer, seals, o-rings, and assorted screws	A5E03549324	

¹⁾ The system firmware bundle must be stated in the "Remark" field when ordering, to ensure compatibility of the system. The FW revision is found on the product label for FC430 and FC410.

Further for FC430 the firmware bundle can be found in the local display in the menu items 3.1.10. e.g. "2.02.01-02"

²⁾ The I/O configuration must be stated in the "Remark" field. The I/O configuration is found in the F option of the ordering code. e.g. code "F40" for ordering Ch2 Active Current/Freq/Pulse, Ch3 Active Current/Freq/Pulse, Ch4 Active Input

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