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Flowmeter SITRANS FC430

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).

All compact variants can be validated and configured for SIL 2 or SIL 3 operation as standard. SIL 3 operation requires two flowmeters in series and monitored by a SIL-rated control system.

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 input/output functions can be freely configured for analog, pulse, frequency, relay or status.

The transmitter comes with a user-configurable graphical display and new SensorFlash technology, 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
- SensorFlash transfers setup and operating data, providing simple sensor replacement
- Short overall length; easy drop-in replacement into most existing installations

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	24 ... 90 V DC, 100 ... 240 V AC
Weight	4.6 ... 50 kg
Material	
• Sensor	
- Wetted parts	316L stainless steel
- Enclosure	304 stainless steel
• Transmitter	Aluminum with corrosion-resistant coating
Enclosure rating	IP67
Pressure ratings	
• Measuring tubes	100 bar (1450 psi)
• Sensor enclosure	20 bar (DN15, DN 25) 17 bar (DN 50, DN 80)
• Sensor enclosure burst pressure	>160 bar (all sizes)
Temperature ratings	
• Process medium	-50 ... +200 °C (-58 ... +392 °F)
• Ambient	-40 ... +60 °C (-40 ... +140 °F)
Process connections	
• Flanges	EN 1092-1 B1, EN 1092-1 D, ANSI/ASME B16.5, JIS B 2220
• Pipe threads	ASME B1.20 (NPT), ISO228-1 G (BSPP), VCO Quick-connect
• Hygienic threads	DIN 11851, DIN 11864-1, ISO 2853, SMS 1145
• Hygienic clamps	DIN 11864-2, DIN 32676, ISO 2852
Approvals	
• Hazardous area	ATEX, IECEx, cFMus, NEPSI, CSA, TISS, GOST)
• Pressure equipment	PED, CRN
• Hygienic	3A, EHEDG
• Custody transfer	SITRANS FC430 OIML R 117
• Operational safety (compact system only)	SIL 2 (Sensor) SIL 3 (Transmitter and redundant system)
NAMUR	Complying with NE132, NE41
I/O	Up to 4 channels combining analog, relay or digital outputs and binary input
Communication	HART 7.2
EMC performance	EN 61326-3-2
Mechanical load	18 to 1000 Hz random, 3.17 G rms, in all directions

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Flowmeter SITRANS FC430

Selection and Ordering data		Order No.	Ord. code
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		7ME4613 - ■■■■■ - ■■■■	■■■
Sensor size, connection size			
DN 15, DN 10 (½", 3/8")		3F	
DN 15, DN 15 (½", ½")	◆	3G	
DN 15, DN 20 (½", ¾")	◆	3H	
DN 15, DN 25 (½", 1")	◆	3J	
DN 25, DN 15 (1", ½")		3K	
DN 25, DN 25 (1", 1")	◆	3L	
DN 25, DN 40 (1", 1½")	◆	3N	
DN 50, DN 40 (2", 1½")	◆	4B	
DN 50, DN 50 (2", 2")	◆	4C	
DN 80, DN 65 (3", 2½")	◆	4J	
DN 80, DN 80 (3", 3")	◆	4K	
DN 80, DN 100 (3", 4")		4L	
Process connection			
EN1092-1 B1, PN 16		A0	
EN1092-1 B1, PN 40	◆	A1	
EN1092-1 B1, PN 63		A2	
EN1092-1 B1, PN 100	◆	A3	
EN1092-1 D nUT, PN 40		A5	
EN1092-1 D nUT, PN 63		A6	
EN1092-1 D nUT, PN 100		A7	
ANSI B16.5-2009, class 150	◆	D1	
ANSI B16.5-2009, class 300		D2	
ANSI B16.5-2009, class 600	◆	D3	
ISO228-1 G pipe thread	◆	E1	
ASME B1.20.1 NPT pipe thread	◆	E3	
DIN 11851 hygienic screwed	◆	F1	
DIN32676 hygienic Tri-Clamp	◆	G1	
DIN11864-1 asceptic screwed	◆	H1	
DIN11864-2 asceptic flanged		H2	
ISO 2852 hygienic clamped	◆	J1	
ISO 2853 hygienic screwed	◆	J5	
SMS 1145 hygienic screwed		K1	
12-VCO-4 quick connect		K5	
JIS B2200:2004/10K		L2	
JIS B2220:2004/20K		L4	
JIS B2220:2004/40K		L6	
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			
• API number		9	N0A
• Balling		9	N0B
• °Baumé light		9	N0C
• °Baumé heavy		9	N0D
• °Brix		9	N0E
• °Oeschlé		9	N0F
• °Plato		9	N0G
• Specific Gravity		9	N0H
• °Twaddell		9	N0J
• %HFCS42		9	N0K
• %HFCS55		9	N0L
• %HFCS90		9	N0M

Selection and Ordering data		Order No.	Ord. code
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		7ME4613 - ■■■■■ - ■■■■	■■■
Transmitter/DSL material & 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/CSA/UL Class 1, Div 1	◆	H	
Local User Interface			
Blind	◆	1	
Graphical, 240 x 160 pxl	◆	3	

◆ Short lead time (details in PMD)

Selection and Ordering data		Order code
Further designs		
Please add "**-Z**" to Order 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**
Sofware 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**
Only compact versions can be used in SIL applications.		

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Selection and Ordering data		Order code
I/O configuration Ch2, Ch3 and Ch4		
None	◆	**F00**
aSignal, None, None	◆	**F40**
aSignal, aSignal, None	◆	**F41**
aSignal, aSignal, aSignal	◆	**F42**
aSignal, aSignal, Ia	◆	**F43**
aSignal, aSignal, R	◆	**F44**
aSignal, Ia, None	◆	**F45**
aSignal, Ia, Ia	◆	**F46**
aSignal, Ia, R	◆	**F47**
aSignal, R, None	◆	**F50**
aSignal, R, R	◆	**F51**
pSignal, None, None	◆	**F60**
pSignal, pSignal, None	◆	**F61**
pSignal, pSignal, pSignal	◆	**F62**
pSignal, pSignal, Ip	◆	**F63**
pSignal, pSignal, R	◆	**F64**
pSignal, Ip, None	◆	**F65**
pSignal, Ip, Ip	◆	**F66**
pSignal, Ip, R	◆	**F67**
pSignal, R, None	◆	**F70**
pSignal, R, R	◆	**F71**
aSignal, aSignal, pSignal		**F80**
aSignal, aSignal, Ip		**F81**
aSignal, pSignal, None		**F82**
aSignal, pSignal, pSignal		**F83**
aSignal, pSignal, Ia		**F84**
aSignal, pSignal, Ip		**F85**
aSignal, pSignal, R		**F86**
aSignal, Ia, Ip		**F87**
aSignal, Ip, None		**F90**
aSignal, Ip, Ip		**F91**
aSignal, Ip, R		**F92**
pSignal, pSignal, Ia		**F93**
pSignal, Ia, None		**F94**
pSignal, Ia, Ia		**F95**
pSignal, Ia, Ip		**F96**
pSignal, Ia, R		**F97**

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..

Selection and Ordering data		Order code
Add-on options and accessories		
Please add "**-Z**" to Order No. and specify Order code(s).		
Certificates		
Pressure test certificate CRN	◆	**C01**
Pressure test certificate PED	◆	**C02**
Material certificate EN 10204-3.1	◆	**C05**
Welding inspection report		**C07**
Factory certificate to EN 10204 2.1	◆	**C10**
Factory certificate to EN 10204 2.2	◆	**C11**
Cable		
None	◆	**L50**
5 m (16.4 ft), standard with M12 plugs fitted	◆	**L51**
5 m (16.4 ft), standard	◆	**L52**
10 m (32.8 ft) standard with M12 plugs fitted	◆	**L55**
10 m (32.8 ft), standard	◆	**L56**
25 m (82 ft), standard with M12 plugs fitted	◆	**L59**
25 m (82 ft), standard	◆	**L60**
50 m (164 ft), standard with M12 plugs fitted	◆	**L63**
50 m (164 ft), standard	◆	**L64**
75 m (246 ft), standard with M12 plugs fitted	◆	**L67**
75 m (246 ft), standard	◆	**L68**
150 m (492 ft), standard with M12 plugs fitted	◆	**L71**
150 m (492 ft), standard	◆	**L72**
Additional data		
Please add "**-Z**" to Order No. and specify Order code(s) and plain text.		
Tag name		
Tag name plate, stainless steel		**Y17**
Transmitter setup		
Custom transmitter setup		**Y20**
Customer specific calibration		
Customer specific calibration (5 flow x 2 points)		**Y61**
Customer specific calibration (10 flow x 1 point)		**Y62**

◆ Short lead time (details in PMD)

Operating instructions for SITRANS FC430

Description	Order No.
• English	**A5E03361511**
• German	**A5E03651143**
• Spanish	**A5E03651152**
• French	**A5E03651188**
• Italian	**A5E03651190**
• Chinese	**A5E03922773**

This device is shipped with a Quick Start guide and a CD containing further SITRANS F C literature.

All literature is also available for free at:
http://www.siemens.com/flowdocumentation

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Flowmeter SITRANS FC430

Selection and Ordering data		Order No.	Ord. code
SITRANS FC430 Digital coriolis flowmeter	◆	**7ME4623-**	
with SITRANS FCS400 Flow sensor Hygienic version with Ra < 0.8 µm, 3A approved, and compact or remote mounting with FCT030 transmitter		■■■■■-■■■■	■■■ ■■■
Sensor size, connection size			
DN 15, DN 10 (½", 3/8")		3F	
DN 15, DN 15 (½", ½")	◆	3G	
DN 15, DN 20 (½", ¾")		3H	
DN 15, DN 25 (½", 1")		3J	
DN 25, DN 25 (1", 1")	◆	3L	
DN 25, DN 25 (1", 1¼")		3M	
DN 25, DN 40 (1", 1½")		3N	
DN 50, DN 40 (2", 1½")		4B	
DN 50, DN 50 (2", 2")	◆	4C	
DN 80, DN 65 (3", 2½")		4J	
DN 80, DN 80 (3", 3")	◆	4K	
Process connection			
DIN 11851 0,8 µm screwed	◆	F1	
DIN 32676 0,8 µm Tri-Clamp	◆	G1	
DIN 11864-1 0,8 µm screwed	◆	H1	
DIN 11864-2 0,8 µm flanged		H2	
ISO 2852 0,8 µm clamped	◆	J1	
ISO 2853 0,8 µm screwed	◆	J5	
Wetted parts material			
AISI 316L/W1.4435 (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			
• API number		9	N0A
• Balling		9	N0B
• °Baumé light		9	N0C
• °Baumé heavy		9	N0D
• °Brix		9	N0E
• °Oeschlé		9	N0F
• °Plato		9	N0G
• Specific Gravity		9	N0H
• °Twaddell		9	N0J
• %HFCS42		9	N0K
• %HFCS55		9	N0L
• %HFCS90		9	N0M
Transmitter/DSL material and mounting style			
Compact, IP67, aluminum	◆	D	D
Remote, IP67, aluminum, M12	◆	G	G
Remote, IP67, aluminum, T/Box	◆	K	K
Ex approval			
Non-Ex	◆	A	A
ATEX II 2GD	◆	C	C
IECEx GDb	◆	F	F
FM/CSA/UL Class 1, Div 1	◆	H	H
Local User Interface			
Blind	◆	1	1
Graphical, 240 x 160 pxl	◆	3	3

◆ Short lead time (details in PMD)

Selection and Ordering data		Order code
Further designs		
Please add "**-Z**" to Order 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**
Sofware 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**

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Selection and Ordering data		Order code
I/O configuration Ch2, Ch3 and Ch4		
None	◆	**F00**
aSignal, None, None	◆	**F40**
aSignal, aSignal, None	◆	**F41**
aSignal, aSignal, aSignal	◆	**F42**
aSignal, aSignal, Ia	◆	**F43**
aSignal, aSignal, R	◆	**F44**
aSignal, Ia, None	◆	**F45**
aSignal, Ia, Ia	◆	**F46**
aSignal, Ia, R	◆	**F47**
aSignal, R, None	◆	**F50**
aSignal, R, R	◆	**F51**
pSignal, None, None	◆	**F60**
pSignal, pSignal, None	◆	**F61**
pSignal, pSignal, pSignal	◆	**F62**
pSignal, pSignal, Ip	◆	**F63**
pSignal, pSignal, R	◆	**F64**
pSignal, Ip, None	◆	**F65**
pSignal, Ip, Ip	◆	**F66**
pSignal, Ip, R	◆	**F67**
pSignal, R, None	◆	**F70**
pSignal, R, R	◆	**F71**
aSignal, aSignal, pSignal		**F80**
aSignal, aSignal, Ip		**F81**
aSignal, pSignal, None		**F82**
aSignal, pSignal, pSignal		**F83**
aSignal, pSignal, Ia		**F84**
aSignal, pSignal, Ip		**F85**
aSignal, pSignal, R		**F86**
aSignal, Ia, Ip		**F87**
aSignal, Ip, None		**F90**
aSignal, Ip, Ip		**F91**
aSignal, Ip, R		**F92**
pSignal, pSignal, Ia		**F93**
pSignal, Ia, None		**F94**
pSignal, Ia, Ia		**F95**
pSignal, Ia, Ip		**F96**
pSignal, Ia, R		**F97**

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..

Selection and Ordering data		Order code
Add-on options and accessories		
Please add "**-Z**" to Order No. and specify Order code(s).		
Certificates		
Pressure test certificate CRN	◆	**C01**
Pressure test certificate PED	◆	**C02**
Material certificate EN 10204-3.1	◆	**C05**
Welding inspection report		**C07**
Factory certificate to EN 10204 2.1	◆	**C10**
Factory certificate to EN 10204 2.2	◆	**C11**
Cable		
None	◆	**L50**
5 m (16.4 ft), standard with M12 plugs fitted	◆	**L51**
5 m (16.4 ft), standard	◆	**L52**
10 m (32.8 ft) standard with M12 plugs fitted	◆	**L55**
10 m (32.8 ft), standard	◆	**L56**
25 m (82 ft), standard with M12 plugs fitted	◆	**L59**
25 m (82 ft), standard	◆	**L60**
50 m (164 ft), standard with M12 plugs fitted	◆	**L63**
50 m (164 ft), standard	◆	**L64**
75 m (246 ft), standard with M12 plugs fitted	◆	**L67**
75 m (246 ft), standard	◆	**L68**
150 m (492 ft), standard with M12 plugs fitted	◆	**L71**
150 m (492 ft), standard	◆	**L72**
Additional data		
Please add "**-Z**" to Order No. and specify Order code(s) and plain text.		
Tag name		
Tag name plate, stainless steel		**Y17**
Transmitter setup		
Custom transmitter setup		**Y20**
Customer specific calibration		
Customer specific calibration (5 flow x 2 points)		**Y61**
Customer specific calibration (10 flow x 1 point)		**Y62**

◆ Short lead time (details in PMD)

Operating instructions for SITRANS FC430

Description	Order No.
• English	**A5E03361511**
• German	**A5E03651143**
• Spanish	**A5E03651152**
• French	**A5E03651188**
• Italian	**A5E03651190**
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Flowmeter SITRANS FC430

Selection and Ordering data		Order No.	Ord. code
SITRANS FC430 Digital coriolis flowmeter	◆	7ME4713 -	
with SITRANS FCS400 NAMUR compliant flow sensor with flange/pipe thread connections and compact or remote mounting with FCT030 transmitter		■■■■ - ■■■■	■■■
Sensor size, Connection size			
DN 15, DN 15 (½", ½")	◆	3G	
DN 25, DN 25 (1", 1")	◆	3L	
DN 50, DN 50 (2", 2")	◆	4C	
DN 80, DN 80 (3", 3")	◆	4K	
Process connection			
EN1092-1 B1, PN 40	◆	A1	
EN1092-1 B1, PN 100	◆	A3	
ANSI B16.5-2009, class 150	◆	D1	
ANSI B16.5-2009, class 600	◆	D3	
ISO228-1 G pipe thread	◆	E1	
ASME B1.20.1 NPT pipe thread	◆	E3	
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			
• API number		9	N0A
• Balling		9	N0B
• °Baumé light		9	N0C
• °Baumé heavy		9	N0D
• °Brix		9	N0E
• °Oeschlé		9	N0F
• °Plato		9	N0G
• Specific Gravity		9	N0H
• °Twaddell		9	N0J
• %HFCS42		9	N0K
• %HFCS55		9	N0L
• %HFCS90		9	N0M
Transmitter/DSL material & 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/CSA/UL Class 1, Div 1	◆	H	
Local User Interface			
Blind	◆	1	
Graphical, 240 x 160 pxl	◆	3	

◆ Short lead time (details in PMD)

Selection and Ordering data		Order code
Further designs		
Please add "**-Z**" to Order 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**
Sofware 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**

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Selection and Ordering data		Order code
I/O configuration Ch2, Ch3 and Ch4		
None	◆	**F00**
aSignal, None, None	◆	**F40**
aSignal, aSignal, None	◆	**F41**
aSignal, aSignal, aSignal	◆	**F42**
aSignal, aSignal, Ia	◆	**F43**
aSignal, aSignal, R	◆	**F44**
aSignal, Ia, None	◆	**F45**
aSignal, Ia, Ia	◆	**F46**
aSignal, Ia, R	◆	**F47**
aSignal, R, None	◆	**F50**
aSignal, R, R	◆	**F51**
pSignal, None, None	◆	**F60**
pSignal, pSignal, None	◆	**F61**
pSignal, pSignal, pSignal	◆	**F62**
pSignal, pSignal, Ip	◆	**F63**
pSignal, pSignal, R	◆	**F64**
pSignal, Ip, None	◆	**F65**
pSignal, Ip, Ip	◆	**F66**
pSignal, Ip, R	◆	**F67**
pSignal, R, None	◆	**F70**
pSignal, R, R	◆	**F71**
aSignal, aSignal, pSignal		**F80**
aSignal, aSignal, Ip		**F81**
aSignal, pSignal, None		**F82**
aSignal, pSignal, pSignal		**F83**
aSignal, pSignal, Ia		**F84**
aSignal, pSignal, Ip		**F85**
aSignal, pSignal, R		**F86**
aSignal, Ia, Ip		**F87**
aSignal, Ip, None		**F90**
aSignal, Ip, Ip		**F91**
aSignal, Ip, R		**F92**
pSignal, pSignal, Ia		**F93**
pSignal, Ia, None		**F94**
pSignal, Ia, Ia		**F95**
pSignal, Ia, Ip		**F96**
pSignal, Ia, R		**F97**

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...

Selection and Ordering data		Order code
Add-on options and accessories		
Please add "**-Z**" to Order No. and specify Order code(s).		
Certificates		
Pressure test certificate CRN	◆	**C01**
Pressure test certificate PED	◆	**C02**
Material certificate EN 10204-3.1	◆	**C05**
Welding inspection report		**C07**
Factory certificate to EN 10204 2.1	◆	**C10**
Factory certificate to EN 10204 2.2	◆	**C11**
Cable		
None	◆	**L50**
5 m (16.4 ft), standard with M12 plugs fitted	◆	**L51**
5 m (16.4 ft), standard	◆	**L52**
10 m (32.8 ft) standard with M12 plugs fitted	◆	**L55**
10 m (32.8 ft), standard	◆	**L56**
25 m (82 ft), standard with M12 plugs fitted	◆	**L59**
25 m (82 ft), standard	◆	**L60**
50 m (164 ft), standard with M12 plugs fitted	◆	**L63**
50 m (164 ft), standard	◆	**L64**
75 m (246 ft), standard with M12 plugs fitted	◆	**L67**
75 m (246 ft), standard	◆	**L68**
150 m (492 ft), standard with M12 plugs fitted	◆	**L71**
150 m (492 ft), standard	◆	**L72**
Additional data		
Please add "**-Z**" to Order No. and specify Order code(s) and plain text.		
Tag name		
Tag name plate, stainless steel		**Y17**
Transmitter setup		
Custom transmitter setup		**Y20**
Customer specific calibration		
Customer specific calibration (5 flow x 2 points)		**Y61**
Customer specific calibration (10 flow x 1 point)		**Y62**

◆ Short lead time (details in PMD)

Operating instructions for SITRANS FC430

Description	Order No.
• English	**A5E03361511**
• German	**A5E03651143**
• Spanish	**A5E03651152**
• French	**A5E03651188**
• Italian	**A5E03651190**
• Chinese	**A5E03922773**

This device is shipped with a Quick Start guide and a CD containing further SITRANS F C literature.

All literature is also available for free at:
http://www.siemens.com/flowdocumentation

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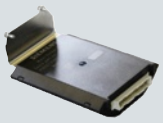
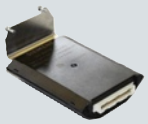
SITRANS FC430
Accessories/Spare parts

Spare parts - transmitter FCT030

Description	Order No.	
Display and keypad assembly with firewire connection to the transmitter module	**A5E03548971**	
Sensor interface (Compact). Front end flow calculator and process detection. SIL 3 approved	**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	**A5E03549357**	
Transmitter cassette (passive) with SIL approved 4 ... 20 mA output and HART 7.2	**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	**A5E03939114**	
SensorFlash (1 GB micro SD card)	**A5E03915258**	

Description	Order 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	Order No.	
Blind lid in painted aluminum with o-ring seal	**A5E03549295**	
Sensor link insert. Front end flow calculator and process detection. SIL 3 approved	**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**	

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Accessories

Description	Order No.	
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[1]	**A5E03907429**	
Bag of glands (metric) in NiPlatedBrass[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[2]	**A5E03907467**	
Bag of glands (NPT) in NiPlatedBrass[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	Order 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**	
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**	
Heating Jacket, indoor use, 200 °C (392 °F) max. temperature. Complete with 5 m (16.4 ft) high temperature cable fitted. Dedicated plug connection to controller		
• DN 15 electric	**A5E03830623**	
• DN 25 electric	**A5E03830624**	
• DN 50 electric	**A5E03830625**	
• DN 80 electric	**A5E03830626**	
Heating jacket controller, IP65. Digital display for 0 ... 200 °C (32 .. 392 °F) control setpoint		
• 230 V AC	**A5E03839193**	
• 115 V AC	**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

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SITRANS FC430
Accessories/Spare parts

Description	Dimension	Order 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**
	DN 65	**FDK:085U1023**
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**