

Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430

Overview



The complete flowmeter system SITRANS FC430 can be ordered for industrial, 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 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
- 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 (1/2"), 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 ± 10%, 100 ... 240 V AC ± 10 %, 50 ... 60 Hz ± 10%
Weight	4.6 ... 50 kg
Material	<ul style="list-style-type: none"> • Sensor <ul style="list-style-type: none"> - Wetted parts 316L stainless steel - Enclosure 304 stainless steel • Transmitter Aluminum with corrosion-resistant coating
Enclosure rating	IP67
Pressure ratings	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Process medium -50 ... +200 °C (-58 ... +392 °F) • Ambient -40 ... +60 °C (-40 ... +140 °F)
Process connections	<ul style="list-style-type: none"> • Flanges EN 1092-1 B1, EN 1092-1 D, ANSI/ASME B16.5, JIS B 2220, DIN 11864-2 • Pipe threads ASME B1.20 (NPT), ISO228-1 G (BSPP), VCO Quick-connect • Hygienic threads DIN 11851, DIN 11864-1A, ISO 2853, SMS 1145 • Hygienic clamps DIN 11864-3A, DIN 32676, ISO 2852
Approvals	<ul style="list-style-type: none"> • Hazardous area ATEX, IECEx, FM, NEPSI, CSA, INMETRO • Pressure equipment PED, CRN • Hygienic 3A, EHEDG • Custody transfer OIML R 117 • Operational safety (compact system only) 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	EN 61326-3-2
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.

Selection and Ordering data	Article 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	7ME 4 6 1 3 -	
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 15 (1", ½")	3 K	
DN 25, DN 25 (1", 1")	3 L	
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		
EN1092-1 B1, PN 16	A 0	
EN1092-1 B1, PN 40	A 1	
EN1092-1 B1, PN 63	A 2	
EN1092-1 B1, PN 100	A 3	
EN1092-1 D nUT, PN 40	A 5	
EN1092-1 D nUT, PN 63	A 6	
EN1092-1 D nUT, PN 100	A 7	
ANSI B16.5-2009, class 150	D 1	
ANSI B16.5-2009, class 300	D 2	
ANSI B16.5-2009, class 600	D 3	
ISO228-1 G pipe thread	E 1	
ASME B1.20.1 NPT pipe thread	E 3	
DIN 11851 hygienic screwed	F 1	
DIN32676 hygienic Tri-Clamp	G 1	
DIN11864-1A aseptic screwed	H 1	
DIN11864-2A aseptic flanged	H 2	
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	
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	N 0 A
• Balling	9	N 0 B
• °Baumé light	9	N 0 C
• °Baumé heavy	9	N 0 D
• °Brix	9	N 0 E
• °Oeschlé	9	N 0 F
• °Plato	9	N 0 G
• Specific Gravity	9	N 0 H
• °Twaddell	9	N 0 J
• %HFCS42	9	N 0 K
• %HFCS55	9	N 0 L
• %HFCS90	9	N 0 M

Selection and Ordering data	Article 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	7ME 4 6 1 3 -	
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, 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	A 01
Metric, plastic	A 02
Metric, brass/Ni plated	A 05
Metric, stainless steel	A 06
NPT, no glands	A 11
NPT, Plastic	A 12
NPT, brass/Ni plated	A 15
NPT, stainless steel	A 16
Software functions and CT approvals	
Standard	B 11
CT standard	B 31
I/O configuration Ch1	
Ca 4 ... 20 mA HART active SIL certified	E 04
Cp 4 ... 20 mA HART passive SIL certified	E 05
Ca 4 ... 20 mA HART active	E 06
Cp 4 ... 20 mA HART passive	E 07
Only compact versions can be used in SIL applications.	

Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430

3

Selection and Ordering data

Order code

I/O configuration Ch2, Ch3 and Ch4

None
 aSignal, None, None
 aSignal, aSignal, None
 aSignal, aSignal, aSignal
 aSignal, aSignal, Ia
 aSignal, aSignal, R
 aSignal, Ia, None
 aSignal, Ia, Ia
 aSignal, Ia, R
 aSignal, R, None
 aSignal, R, R
 pSignal, None, None
 pSignal, pSignal, None
 pSignal, pSignal, pSignal
 pSignal, pSignal, Ip
 pSignal, pSignal, R
 pSignal, Ip, None
 pSignal, Ip, Ip
 pSignal, Ip, R
 pSignal, R, None
 pSignal, R, R
 aSignal, aSignal, pSignal
 aSignal, aSignal, Ip
 aSignal, pSignal, None
 aSignal, pSignal, pSignal
 aSignal, pSignal, Ia
 aSignal, pSignal, Ip
 aSignal, pSignal, R
 aSignal, Ia, Ip
 aSignal, Ip, None
 aSignal, Ip, Ip
 aSignal, Ip, R
 pSignal, pSignal, Ia
 pSignal, Ia, None
 pSignal, Ia, Ia
 pSignal, Ia, Ip
 pSignal, Ia, R

◆ **F00**
F40
F41
F42
F43
F44
F45
F46
F47
F50
F51
F60
F61
F62
F63
F64
F65
F66
F67
F70
F71
F80
F81
F82
F83
F84
F85
F86
F87
F90
F91
F92
F93
F94
F95
F96
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 Article 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 Article No. and specify Order code(s) and plain text.

Tag name

Tag name plate, stainless steel **Y17**

Customer specific calibration

Customer specific calibration (5 flow x 2 points) **Y61**
 Customer specific calibration (10 flow x 1 point) **Y62**

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

Operating instructions for SITRANS FC430

Description	Article 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>

Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Order code
SITRANS FC430 Digital coriolis flowmeter	7ME4623-		Further designs	
with SITRANS FCS400 Flow sensor			Please add "-Z" to Article No. and specify Order code(s).	
Hygienic version with Ra < 0.8 µm, 3A approved, and compact or remote mounting with FCT030 transmitter			Cable glands	
Sensor size, connection size			Metric, no glands	◆ A01
DN 15, DN 10 (½", 3/8")	◆ 3 F		Metric, plastic	◆ A02
DN 15, DN 15 (½", ½")	◆ 3 G		Metric, brass/Ni plated	◆ A05
DN 15, DN 20 (½", ¾")	◆ 3 H		Metric, stainless steel	◆ A06
DN 15, DN 25 (½", 1")	◆ 3 J		NPT, no glands	◆ A11
DN 25, DN 25 (1", 1")	◆ 3 L		NPT, plastic	◆ A12
DN 25, DN 25 (1", 1¼")	◆ 3 M		NPT, brass/Ni plated	◆ A15
DN 25, DN 40 (1", 1½")	◆ 3 N		NPT, stainless steel	◆ A16
DN 50, DN 40 (2", 1½")	◆ 4 B		Software functions and CT approvals	
DN 50, DN 50 (2", 2")	◆ 4 C		Standard	◆ B11
DN 80, DN 65 (3", 2½")	◆ 4 J		CT standard	◆ B31
DN 80, DN 80 (3", 3")	◆ 4 K		I/O configuration Ch1	
Process connection			Ca 4 ... 20 mA HART active SIL certified	◆ E04
DIN 11851 0.8 µm screwed	◆ F 1		Cp 4 ... 20 mA HART passive SIL certified	◆ E05
DIN 32676 0.8 µm Tri-Clamp	◆ G 1		Ca 4 ... 20 mA HART active	◆ E06
DIN 11864-1 0.8 µm screwed	◆ H 1		Cp 4 ... 20 mA HART passive	◆ E07
DIN 11864-2 0.8 µm flanged	◆ H 2			
ISO 2852 0.8 µm clamped	◆ J 1			
ISO 2853 0.8 µm 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				
• API number	◆ 9		N 0 A	
• Balling	◆ 9		N 0 B	
• °Baumé light	◆ 9		N 0 C	
• °Baumé heavy	◆ 9		N 0 D	
• °Brix	◆ 9		N 0 E	
• °Oeschlé	◆ 9		N 0 F	
• °Plato	◆ 9		N 0 G	
• Specific Gravity	◆ 9		N 0 H	
• °Twaddell	◆ 9		N 0 J	
• %HFCS42	◆ 9		N 0 K	
• %HFCS55	◆ 9		N 0 L	
• %HFCS90	◆ 9		N 0 M	
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.

Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430

3

Selection and Ordering data

Order code

I/O configuration Ch2, Ch3 and Ch4

None
 aSignal, None, None
 aSignal, aSignal, None
 aSignal, aSignal, aSignal
 aSignal, aSignal, Ia
 aSignal, aSignal, R
 aSignal, Ia, None
 aSignal, Ia, Ia
 aSignal, Ia, R
 aSignal, R, None
 aSignal, R, R
 pSignal, None, None
 pSignal, pSignal, None
 pSignal, pSignal, pSignal
 pSignal, pSignal, Ip
 pSignal, pSignal, R
 pSignal, Ip, None
 pSignal, Ip, Ip
 pSignal, Ip, R
 pSignal, R, None
 pSignal, R, R
 aSignal, aSignal, pSignal
 aSignal, aSignal, Ip
 aSignal, pSignal, None
 aSignal, pSignal, pSignal
 aSignal, pSignal, Ia
 aSignal, pSignal, Ip
 aSignal, pSignal, R
 aSignal, Ia, Ip
 aSignal, Ip, None
 aSignal, Ip, Ip
 aSignal, Ip, R
 pSignal, pSignal, Ia
 pSignal, Ia, None
 pSignal, Ia, Ia
 pSignal, Ia, Ip
 pSignal, Ia, R

◆ **F00**
F40
F41
F42
F43
F44
F45
F46
F47
F50
F51
F60
F61
F62
F63
F64
F65
F66
F67
F70
F71
F80
F81
F82
F83
F84
F85
F86
F87
F90
F91
F92
F93
F94
F95
F96
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 Article 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 Article No. and specify Order code(s) and plain text.

Tag name

Tag name plate, stainless steel **Y17**

Customer specific calibration

Customer specific calibration (5 flow x 2 points) **Y61**
 Customer specific calibration (10 flow x 1 point) **Y62**

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

Operating instructions for SITRANS FC430

Description	Article 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>

Selection and Ordering data	Article 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, 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

Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430

3

Selection and Ordering data

I/O configuration Ch2, Ch3 and Ch4

Order code
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 Article 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 Article No. and specify Order code(s) and plain text.

Tag name

Tag name plate, stainless steel	Y17
---------------------------------	-----

Customer specific calibration

Customer specific calibration (5 flow x 2 points)	Y61
Customer specific calibration (10 flow x 1 point)	Y62

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









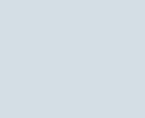


Operating instructions for SITRANS FC430






Description	Article 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>

Accessories

Description	Article No.	
CT plug Tamper 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	
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

Flow Measurement

SITRANS F C

SITRANS FC430 Accessories/Spare parts

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
	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