

# Flow Measurement

## SITRANS FC

### 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

<b>Sizes</b>	DN 15 (1/2"), DN 25 (1"), DN 50 (2"), DN 80 (3")										
<b>Accuracy</b>	± 0.10 %										
<b>Repeatability</b>	± 0.05 %										
<b>Flow range</b> (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)										
<b>Architecture</b>	Compact or remote configuration with selection of twelve languages including Chinese and Russian										
<b>Display</b>	Full graphical display, 240 x 160 pixels										
<b>Power supply</b>	24 ... 90 V DC ± 10%, 100 ... 240 V AC ± 10 %, 50 ... 60 Hz ± 10 %										
<b>Weight</b>	4.6 ... 50 kg										
<b>Material</b>	<table border="0"> <tr> <td>• Sensor</td> <td>316L stainless steel 304 stainless steel</td> </tr> <tr> <td>• Transmitter</td> <td>Aluminum with corrosion-resistant coating</td> </tr> </table>	• Sensor	316L stainless steel 304 stainless steel	• Transmitter	Aluminum with corrosion-resistant coating						
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• Transmitter	Aluminum with corrosion-resistant coating										
<b>Enclosure rating</b>	IP67										
<b>Pressure ratings</b>	<table border="0"> <tr> <td>• Measuring tubes</td> <td>100 bar (1450 psi)</td> </tr> <tr> <td>• Sensor enclosure</td> <td>20 bar (DN15, DN 25) 17 bar (DN 50, DN 80)</td> </tr> <tr> <td>• Sensor enclosure burst pressure</td> <td>&gt;160 bar (all sizes)</td> </tr> </table>	• 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)				
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<b>Approvals</b>	<table border="0"> <tr> <td>• Hazardous area</td> <td>ATEX, IECEx, FM, NEPSI, CSA, INMETRO</td> </tr> <tr> <td>• Pressure equipment</td> <td>PED, CRN</td> </tr> <tr> <td>• Hygienic</td> <td>3A, EHEDG</td> </tr> <tr> <td>• Custody transfer</td> <td>OIML R 117</td> </tr> <tr> <td>• Operational safety (compact system only)</td> <td>SIL 2 Single SIL 3 Redundant system</td> </tr> </table>	• 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
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• Pressure equipment	PED, CRN										
• Hygienic	3A, EHEDG										
• Custody transfer	OIML R 117										
• Operational safety (compact system only)	SIL 2 Single SIL 3 Redundant system										
<b>NAMUR</b>	NAMUR-compliant (e.g. NE 21, NE 41 and NE 132)										
<b>I/O</b>	Up to 4 channels combining analog, relay or digital outputs and binary input										
<b>Communication</b>	HART 7.2										
<b>EMC performance</b>	EN 61326-3-2										
<b>Mechanical load</b>	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 FC

### Flowmeter SITRANS FC430

<b>Selection and Ordering data</b>		Article No.	Ord. code	<b>Selection and Ordering data</b>	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		7 ME 4 6 1 3 -		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	7 ME 4 6 1 3 -	
<b>Sensor size, connection size</b>				<b>Transmitter/DSL material &amp; mounting style</b>		
DN 15, DN 10 (1/2", 3/8")	3 F			Compact, IP67, aluminum	D	
DN 15, DN 15 (1/2", 1/2")	3 G			Remote, IP67, aluminum, M12	G	
DN 15, DN 20 (1/2", 3/4")	3 H			Remote, IP67, aluminum, T/Box	K	
DN 15, DN 25 (1/2", 1")	3 J					
DN 25, DN 15 (1", 1/2")	3 K			<b>Ex approval</b>		
DN 25, DN 25 (1", 1")	3 L			Non-Ex	A	
DN 25, DN 40 (1", 1 1/2")	3 N			ATEX II 2GD	C	
DN 50, DN 40 (2", 1 1/2")	4 B			IECEx GDb	F	
DN 50, DN 50 (2", 2")	4 C			FM, Class 1, Div 1	H	
DN 80, DN 65 (3", 2 1/2")	4 J			CSA, Class 1, Zone 1	M	
DN 80, DN 80 (3", 3")	4 K					
DN 80, DN 100 (3", 4")	4 L					
<b>Process connection</b>						
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			<b>Cable glands</b>		
12-VCO-4 quick connect	K 5			Metric, no glands	A01	
JIS B2200:2004/10K	L 2			Metric, plastic	A02	
JIS B2220:2004/20K	L 4			Metric, brass/Ni plated	A05	
JIS B2220:2004/40K	L 6			Metric, stainless steel	A06	
<b>Wetted parts material</b>				NPT, no glands	A11	
AISI 316L/W1.4435/W1.4404 (100 barg max.)	1			NPT, Plastic	A12	
<b>Calibration/Accuracy class</b>				NPT, brass/Ni plated	A15	
0,1 % flow, 5 kg/m³ density	1			NPT, stainless steel	A16	
0,1 % flow, 1 kg/m³ density	4					
Standard fraction calibration				<b>Software functions and CT approvals</b>		
• API number	9			Standard	B11	
• Balling	9			CT standard	B31	
• °Baumé light	9					
• °Baumé heavy	9			<b>I/O configuration Ch1</b>		
• °Brix	9			Ca 4 ... 20 mA HART active SIL certified	E04	
• °Oeschlé	9			Cp 4 ... 20 mA HART passive SIL certified	E05	
• °Plato	9			Ca 4 ... 20 mA HART active	E06	
• Specific Gravity	9			Cp 4 ... 20 mA HART passive	E07	
• °Twaddell	9			Only compact versions can be used in SIL applications.		
• %HFCS42	9					
• %HFCS55	9					
• %HFCS90	9					

# Flow Measurement

## SITRANS FC

### Flowmeter SITRANS FC430

3

#### Selection and Ordering data

##### 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

#### 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..

#### Order code

- ◆ **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**

#### Selection and Ordering data

##### Add-on options and accessories

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

##### Certificates

Pressure test certificate CRN  
 Pressure test certificate PED  
 Material certificate EN 10204-3.1

Welding inspection report  
 Factory certificate to EN 10204 2.1  
 Factory certificate to EN 10204 2.2

#### Order code

- C01**
- C02**
- C05**
- C07**
- ◆ **C10**
- C11**

##### Cable

None  
 5 m (16.4 ft), standard with M12 plugs fitted  
 5 m (16.4 ft), standard  
 10 m (32.8 ft) standard with M12 plugs fitted  
 10 m (32.8 ft), standard  
 25 m (82 ft), standard with M12 plugs fitted  
 25 m (82 ft), standard  
 50 m (164 ft), standard with M12 plugs fitted  
 50 m (164 ft), standard  
 75 m (246 ft), standard with M12 plugs fitted  
 75 m (246 ft), standard  
 150 m (492 ft), standard with M12 plugs fitted  
 150 m (492 ft), standard

- L50**
- L51**
- L52**
- L55**
- L56**
- L59**
- L60**
- L63**
- L64**
- L67**
- L68**
- L71**
- 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)  
 Customer specific calibration (10 flow x 1 point)

- Y61**
- 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 FC literature.

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

### Flowmeter SITRANS FC430

Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Order code
<b>SITRANS FC430 Digital coriolis flowmeter</b>	<b>7 ME 4 6 2 3 -</b>			
<b>with SITRANS FCS400 Flow sensor</b>				
<b>Hygienic version with Ra &lt; 0.8 µm, 3A approved, and compact or remote mounting with FCT030 transmitter</b>				
<b>Sensor size, connection size</b>				
DN 15, DN 10 (½", 3/8")	3 F		<b>Cable glands</b>	A01
DN 15, DN 15 (½", ½")	3 G		Metric, no glands	A02
DN 15, DN 20 (½", ¾")	3 H		Metric, plastic	A05
DN 15, DN 25 (½", 1")	3 J		Metric, brass/Ni plated	A06
DN 25, DN 25 (1", 1")	3 L		Metric, stainless steel	A11
DN 25, DN 25 (1", 1¼")	3 M		NPT, no glands	A12
DN 25, DN 40 (1", 1½")	3 N		NPT, plastic	A15
DN 50, DN 40 (2", 1½")	4 B		NPT, brass/Ni plated	A16
DN 50, DN 50 (2", 2")	4 C		NPT, stainless steel	
DN 80, DN 65 (3", 2½")	4 J			
DN 80, DN 80 (3", 3")	4 K			
<b>Process connection</b>			<b>Software functions and CT approvals</b>	
DIN 11851 0.8 µm screwed	F 1		Standard	B11
DIN 32676 0.8 µm Tri-Clamp	G 1		CT standard	B31
DIN 11864-1 0.8 µm screwed	H 1			
DIN 11864-2 0.8 µm flanged	H 2		<b>I/O configuration Ch1</b>	
ISO 2852 0.8 µm clamped	J 1		Ca 4 ... 20 mA HART active SIL certified	E04
ISO 2853 0.8 µm screwed	J 5		Cp 4 ... 20 mA HART passive SIL certified	E05
<b>Wetted parts material</b>			Ca 4 ... 20 mA HART active	E06
AISI 316L/1.4435 (40 bar max.)	1		Cp 4 ... 20 mA HART passive	E07
<b>Calibration/Accuracy class</b>				
0,1 % flow, 5 kg/m³ density	1			
0,1 % flow, 1 kg/m³ density	4			
Standard fraction calibration				
• API number	9		<b>N0 A</b>	
• Balling	9		<b>N0 B</b>	
• °Baumé light	9		<b>N0 C</b>	
• °Baumé heavy	9		<b>N0 D</b>	
• °Brix	9		<b>N0 E</b>	
• °Oeschlé	9		<b>N0 F</b>	
• °Plato	9		<b>N0 G</b>	
• Specific Gravity	9		<b>N0 H</b>	
• °Twaddell	9		<b>N0 J</b>	
• %HFCS42	9		<b>N0 K</b>	
• %HFCS55	9		<b>N0 L</b>	
• %HFCS90	9		<b>N0 M</b>	
<b>Transmitter/DSL material and mounting style</b>				
Compact, IP67, aluminum	D			
Remote, IP67, aluminum, M12	G			
Remote, IP67, aluminum, T/Box	K			
<b>Ex approval</b>				
Non-Ex	A			
ATEX II 2GD	C			
IECEEx GDB	F			
FM, Class 1, Div 1	H			
CSA, Class 1, Zone 1	M			
<b>Local User Interface</b>				
Blind	1			
Graphical, 240 x 160 pxl	3			

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# Flow Measurement

## SITRANS FC

### Flowmeter SITRANS FC430

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#### Selection and Ordering data

##### 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

#### 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'.

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#### Order code

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- F40**
- F41**
- F42**
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- F44**
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- F87**
- F90**
- F91**
- F92**
- F93**
- F94**
- F95**
- F96**
- F97**

#### Selection and Ordering data

##### Add-on options and accessories

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

##### Certificates

Pressure test certificate CRN  
 Pressure test certificate PED  
 Material certificate EN 10204-3.1  
 Welding inspection report  
 Factory certificate to EN 10204 2.1  
 Factory certificate to EN 10204 2.2

#### Order code

- C01**
- C02**
- C05**
- C07**
- ◆ **C10**
- C11**

##### Cable

None  
 5 m (16.4 ft), standard with M12 plugs fitted  
 5 m (16.4 ft), standard  
 10 m (32.8 ft) standard with M12 plugs fitted  
 10 m (32.8 ft), standard  
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##### 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)  
 Customer specific calibration (10 flow x 1 point)

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### Flowmeter SITRANS FC430

Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Order code
<b>SITRANS FC430 Digital coriolis flowmeter</b>	<b>7ME4713 -</b>			
with SITRANS FCS400 NAMUR compliant flow sensor with flange/pipe thread connections and compact or remote mounting with FCT030 transmitter				
<b>Sensor size, Connection size</b>				
DN 15, DN 15 (½", ½")	3 G			A01
DN 25, DN 25 (1", 1")	3 L			A02
DN 50, DN 50 (2", 2")	4 C			A05
DN 80, DN 80 (3", 3")	4 K			A06
<b>Process connection</b>				
EN1092-1 B1, PN 40	A 1			A11
EN1092-1 B1, PN 100	A 3			A12
ANSI B16.5-2009, class 150	D 1			A15
ANSI B16.5-2009, class 600	D 3			A16
ISO228-1 G pipe thread	E 1			
ASME B1.20.1 NPT pipe thread	E 3			
<b>Wetted parts material</b>				
AISI 316L/W1.4435/W1.4404 (100 barg max.)	1			
<b>Calibration/Accuracy class</b>				
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		
<b>Transmitter/DSL material &amp; mounting style</b>				
Compact, IP67, aluminum	D			
Remote, IP67, aluminum, M12	G			
Remote, IP67, aluminum, T/Box	K			
<b>Ex approval</b>				
Non-Ex	A			
ATEX II 2GD	C			
IECEx Gdb	F			
FM, Class 1, Div 1	H			
CSA, Class 1, Zone 1	M			
<b>Local User Interface</b>				
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 FC

### Flowmeter SITRANS FC430

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#### Selection and Ordering data

##### 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

#### 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...

#### Order code

- ◆ **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**

#### Selection and Ordering data

##### Add-on options and accessories

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

##### Certificates

Pressure test certificate CRN  
 Pressure test certificate PED  
 Material certificate EN 10204-3.1

Welding inspection report  
 Factory certificate to EN 10204 2.1  
 Factory certificate to EN 10204 2.2

#### Order code

- C01**
- C02**
- C05**
- C07**
- ◆ **C10**
- C11**

##### Cable

None  
 5 m (16.4 ft), standard with M12 plugs fitted  
 5 m (16.4 ft), standard  
 10 m (32.8 ft) standard with M12 plugs fitted  
 10 m (32.8 ft), standard  
 25 m (82 ft), standard with M12 plugs fitted  
 25 m (82 ft), standard  
 50 m (164 ft), standard with M12 plugs fitted  
 50 m (164 ft), standard  
 75 m (246 ft), standard with M12 plugs fitted  
 75 m (246 ft), standard  
 150 m (492 ft), standard with M12 plugs fitted  
 150 m (492 ft), standard

- L50**
- L51**
- L52**
- L55**
- L56**
- L59**
- L60**
- L63**
- L64**
- L67**
- L68**
- L71**
- 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)  
 Customer specific calibration (10 flow x 1 point)

- Y61**
- Y62**

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#### 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 FC literature.

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

# Flow Measurement

## SITRANS FC

### SITRANS FC430 Accessories/Spare parts

**Accessories**

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

Description	Article No.	
Standard cable (Ex) with M12 plugs, PO insulation and PUR sleeve, blue, -40 ... +80 °C (-40 ... +176 °F)		
• 5 m	<b>A5E03914929</b>	
• 10 m	<b>A5E03914962</b>	
• 25 m	<b>A5E03914995</b>	
• 50 m	<b>A5E03915004</b>	
• 75 m	<b>A5E03915074</b>	
• 150 m	<b>A5E03915088</b>	
Standard cable (Ex) for termination, PO insulation and PUR sleeve, blue, -40 ... +80 °C (-40 ... +176 °F)		
• 5 m	<b>A5E03914945</b>	
• 10 m	<b>A5E03914973</b>	
• 25 m	<b>A5E03914984</b>	
• 50 m	<b>A5E03915015</b>	
• 75 m	<b>A5E03915057</b>	
• 150 m	<b>A5E03915100</b>	
Service toolkit for field maintenance of transmitter and sensor components. Contains all hand tools necessary for maintenance. Other tools may be required for installation.	<b>A5E03722877</b>	
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	<b>A5E03830623</b>	
• DN 25 electric	<b>A5E03830624</b>	
• DN 50 electric	<b>A5E03830625</b>	
• DN 80 electric	<b>A5E03830626</b>	
Heating jacket controller, IP65. Digital display for 0 ... 200 °C (32 ... 392 °F) control setpoint		
• 230 V AC	<b>A5E03839193</b>	
• 115 V AC	<b>A5E03839194</b>	

<sup>1)</sup> 2 pcs M20; 1 pce M25 with single and dual cable inserts

<sup>2)</sup> 2 pcs ½" NPT, 1 pce ½" NPT with single and dual cable inserts

# Flow Measurement

## SITRANS FC

### SITRANS FC430 Accessories/Spare parts

Description	Dimension	Article No.
Mating parts for hygienic fittings DIN 11851	DN 10	<b>FDK:085U1016</b>
	DN 15	<b>FDK:085U1017</b>
Includes:	DN 25	<b>FDK:085U1019</b>
• 2 unions	DN 32	<b>FDK:085U1020</b>
• 2 mating parts (for welding in)	DN 40	<b>FDK:085U1021</b>
• 2 EPDM gaskets	DN 50	<b>FDK:085U1022</b>
	DN 65	<b>FDK:085U1023</b>
Mating parts for hygienic clamp ISO 2852	25 mm	<b>FDK:085U1029</b>
	40 mm	<b>FDK:085U1031</b>
Includes:	50 mm	<b>FDK:085U1032</b>
• 2 clamps		
• 2 mating parts		
• 2 EPDM gaskets		
2 EPDM gaskets with collar for mounting set DIN 11851	DN 10	<b>FDK:085U1006</b>
	DN 15	<b>FDK:085U1007</b>
	DN 25	<b>FDK:085U1009</b>
	DN 32	<b>FDK:085U1010</b>
	DN 40	<b>FDK:085U1011</b>
	DN 50	<b>FDK:085U1012</b>
	DN 65	<b>FDK:085U1013</b>