

# Flow Measurement

## SITRANS FC

### Flowmeter SITRANS FC410

#### Overview



The compact flowmeter SITRANS FC410 can be ordered for industrial, hygienic or NAMUR service.

Intended for integration into OEM skids, machines or pre-assembled plant systems, 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 with control in host system
- High immunity against process noise
- High turndown ratio of flowrates
- Suitable for liquid and gas service
- Easy to install, commission and maintain

FC410 is available with Modbus RTU (RS 485) multi-drop serial communication.

The flowmeter is supplied with SensorFlash, a micro SD card containing all relevant certificates.

The SITRANS FC410 flowmeter system consists of a SITRANS FCS400 sensor and a SITRANS FCT010 transmitter always compact mounted.

#### Benefits

- It is narrow and light, fitting neatly into dense piping arrangements
- Effective separation of measurement from plant vibration
- Reliable measurements due to high signal to noise ratio
- Short overall length; easy drop-in replacement into most existing installations
- Direct connection to host with high-speed Modbus simplifies machine or skid construction and set-up.

#### 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>Power supply</b>	24 V DC ± 20 %; 110 mA
<b>Weight</b>	4.6 ... 50 kg
<b>Material</b>	
• Sensor	316L stainless steel or Hastelloy C22
- Measuring tubes	304 stainless steel
- Enclosure	Aluminum with corrosion-resistant coating
• Transmitter	
<b>Enclosure rating</b>	IP67
<b>Pressure ratings</b>	
• Measuring tubes	100 bar (1450 psi) 160 bar (2321 psi)
- 316L	20 bar (DN15, DN 25) 17 bar (DN 50, DN 80)
- Hastelloy C22	>160 bar (all sizes)
• Sensor enclosure	
• Sensor enclosure burst pressure	
<b>Temperature ratings</b>	
• Process medium	-50 ... +200 °C (-58 ... +392 °F)
• Ambient	-40 ... +60 °C (-40 ... +140 °F)
<b>Process connections</b>	
• 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
<b>Approvals</b>	
• Hazardous area	ATEX, IECEx, FM, NEPSI, CSA, INMETRO (installed with flame-proof conduit)
• Pressure equipment	PED, CRN
• Hygienic	3A, EHEDG
• Marine	Germanischer Lloyd/det Norske Veritas, Bureau Veritas, Lloyds of London, American Bureau of Shipping
<b>NAMUR</b>	NAMUR-compliant (e.g. NE 21, NE 41 and NE 132)
<b>Communication</b>	Modbus RTU
<b>EMC performance</b>	
Emission	EN 55011/CISPR-11 (Class B)
Immunity	EN/IEC 61236-1 (Industry)
<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.

Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Order code
<b>SITRANS FC410 Digital coriolis flowmeter with SITRANS FCS400 Standard flow sensor with hygienic and flange/pipe thread connections and compact mounting with FCT010 transmitter</b>	7 ME 4 6 1 1 -	D 1	<b>Further designs</b> Please add "-Z" to Article No. and specify Order code(s).	
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			<b>Cable glands</b> Metric, no glands Metric, plastic Metric, brass/Ni plated Metric, stainless steel NPT, no glands NPT, Plastic NPT, brass/Ni plated NPT, stainless steel Integral M12 socket	A01 A02 A05 A06 A11 A12 A15 A16 A20
<b>Sensor size, connection size</b>			<b>Software functions and CT approvals</b> Standard	B11
DN 15, DN 10 (1/2", 3/8") DN 15, DN 15 (1/2", 1/2") DN 15, DN 20 (1/2", 3/4") DN 15, DN 25 (1/2", 1") DN 25, DN 15 (1", 1/2") DN 25, DN 25 (1", 1") DN 25, DN 40 (1", 1 1/2") DN 50, DN 40 (2", 1 1/2") DN 50, DN 50 (2", 2") DN 80, DN 65 (3", 2 1/2") DN 80, DN 80 (3", 3") DN 80, DN 100 (3", 4")	3 F 3 G 3 H 3 J 3 K 3 L 3 N 4 B 4 C 4 J 4 K 4 L	A 0 A 1 A 2 A 3 B 1 A 5 A 6 A 7 A 8 D 1 D 2 D 3 D 4 E 1 E 3 F 1 G 1 H 1 H 2 H 3 J 1 J 5 K 1 K 5 L 2 L 4 L 6 L 7 1 3 1 4 8 A C F H M	<b>I/O configuration Ch1</b> Modbus RTU RS 485	E14
<b>Process connection</b>			<b>I/O configuration Ch2, Ch3 and Ch4</b> None	F00
EN 1092-1 B1, PN 16 EN 1092-1 B1, PN 40 EN 1092-1 B1, PN 63 EN 1092-1 B1, PN 100 EN 1092-1 B1, PN 160 EN 1092-1 D NUT, PN 40 EN 1092-1 D NUT, PN 63 EN 1092-1 D NUT, PN 100 EN 1092-1 D NUT, PN 160 ANSI B16.5-2009, class 150 ANSI B16.5-2009, class 300 ANSI B16.5-2009, class 600 ANSI B16.5-2009, class 900 ISO228-1 G pipe thread ASME B1.20.1 NPT pipe thread DIN 11851 hygienic screwed DIN 32676 hygienic Tri-Clamp DIN 11864-1A asceptic screwed DIN 11864-2A asceptic flanged DIN 11864-3A clamped ISO 2852 hygienic clamped ISO 2853 hygienic screwed SMS 1145 hygienic screwed 12-VCO-4 quick connect JIS B2200:2004/10K JIS B2220:2004/20K JIS B2220:2004/40K JIS B2220:2004/63K	A 0 A 1 A 2 A 3 B 1 A 5 A 6 A 7 A 8 D 1 D 2 D 3 D 4 E 1 E 3 F 1 G 1 H 1 H 2 H 3 J 1 J 5 K 1 K 5 L 2 L 4 L 6 L 7 1 3 1 4 8 A C F H M	The Article No. for FC410 systems must be filled to <b>this level</b> , including "-Z" options A.., B.., E.. and F..		
<b>Wetted parts material</b>			↗ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ⚡. For details see page 9/5 in the appendix.	
AISI 316L/W1.4435/W1.4404 (100 barg max.) Hastelloy C22 (only for 7ME461)				
<b>Calibration/Accuracy class</b>				
0.1 % flow, 5 kg/m³ density 0.1 % flow, 1 kg/m³ density Standard fraction calibration	1 4 8			
<b>Ex approval</b>				
Non-Ex ATEX II 2GD IECEx Gdb FM, Class 1, Div 1 CSA, Class 1, Zone 1	1 2 3 4 5	A C F H M		

## Flow Measurement

### SITRANS FC

#### Flowmeter SITRANS FC410

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

<sup>1)</sup> M12 versions of cable have a plug at both ends.

◆ 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 FC410

Description	Article No.
• English	<b>A5E33120874</b>
• German	<b>A5E33124885</b>
• Spanish	<b>A5E33209358</b>
• French	<b>A5E33209377</b>
• Italian	<b>A5E33209408</b>
• Chinese	<b>A5E33209431</b>

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>

Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Order code
<b>SITRANS FC410 Digital coriolis flowmeter</b> with SITRANS FCS400 Flow sensor Hygienic version with Ra < 0.8 µm, 3A approved, and compact mounting with FCT010 transmitter	7 ME 4 6 2 1 -	D 1	<b>Further designs</b> Please add "-Z" to Article No. and specify Order code(s).	
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			<b>Cable glands</b> Metric, no glands Metric, plastic Metric, brass/Ni plated Metric, stainless steel NPT, no glands NPT, plastic NPT, brass/Ni plated NPT, stainless steel Integral M12 socket	<span style="color: #808080;">◆</span> A01 <span style="color: #808080;">◆</span> A02 <span style="color: #808080;">◆</span> A05 <span style="color: #808080;">◆</span> A06 <span style="color: #808080;">◆</span> A11 <span style="color: #808080;">◆</span> A12 <span style="color: #808080;">◆</span> A15 <span style="color: #808080;">◆</span> A16 <span style="color: #808080;">◆</span> A20
<b>Sensor size, connection size</b>			<b>Software functions and CT approvals</b> Standard	<span style="color: #808080;">◆</span> B11
DN 15, DN 10 (1/2", 3/8") DN 15, DN 15 (1/2", 1/2") DN 15, DN 20 (1/2", 3/4") DN 15, DN 25 (1/2", 1")  DN 25, DN 25 (1", 1") DN 25, DN 32 (1", 1 1/4") DN 25, DN 40 (1", 1 1/8")  DN 50, DN 40 (2", 1 1/2") DN 50, DN 50 (2", 2")  DN 80, DN 65 (3", 2 1/2") DN 80, DN 80 (3", 3")	3 F 3 G 3 H 3 J 3 L 3 M 3 N 4 B 4 C 4 J 4 K		<b>I/O configuration Ch1</b> Modbus RTU RS 485	<span style="color: #808080;">◆</span> E14
<b>Process connection</b>			<b>I/O configuration Ch2, Ch3 and Ch4</b> None	<span style="color: #808080;">◆</span> F00
DIN 11851 0.8 µm hygienic screwed DIN 32676 0.8 µm hygienic Tri-Clamp DIN 11864-1 0.8 µm hygienic screwed DIN 11864-2A BF-A 0.8 µm hygienic flanged (metric) DIN 11864-3A BF-A 0.8 µm hygienic clamped DIN 11864-2B BF-A 0.8 µm hygienic flanged (NPS)  ISO 2852 0.8 µm hygienic clamped ISO 2853 0.8 µm hygienic screwed	F 1 G 1 H 1 H 2 H 3 H 4 J 1 J 5	1 1 1 1 1 1 1 1	The Article No. for FC410 systems must be filled to <b>this level</b> , including "-Z" options A., B., E.. and F..	
<b>Wetted parts material</b>				
AISI 316L/1.4435 (40 bar max.)		1		
<b>Calibration/Accuracy class</b>				
0.1 % flow, 5 kg/m³ density 0.1 % flow, 1 kg/m³ density Standard fraction calibration		1 4 8		
<b>Ex approval</b>				
Non-Ex ATEX II 2GD IECEx Gdb FM, Class 1, Div 1 CSA, Class 1, Zone 1		A C F H M		

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## Flow Measurement

### SITRANS FC

#### Flowmeter SITRANS FC410

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

<sup>1)</sup> M12 versions of cable have a plug at both ends.

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#### Operating instructions for SITRANS FC410

Description	Article No.
• English	<b>A5E33120874</b>
• German	<b>A5E33124885</b>
• Spanish	<b>A5E33209358</b>
• French	<b>A5E33209377</b>
• Italian	<b>A5E33209408</b>
• Chinese	<b>A5E33209431</b>

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Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Order code
<b>SITRANS FC410 Digital coriolis flowmeter with SITRANS FCS400 NAMUR compliant flow sensor with flange/pipe thread connections and compact mounting with FCT010 transmitter</b>	7 ME 4 7 1 1 -	- D 1	<b>Further designs</b> Please add "-Z" to Article No. and specify Order code(s).	
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.			<b>Cable glands</b> Metric, no glands Metric, plastic Metric, brass/Ni plated Metric, stainless steel NPT, no glands NPT, plastic NPT, brass/Ni plated NPT, stainless steel	<input type="checkbox"/> A01 <input type="checkbox"/> A02 <input type="checkbox"/> A05 <input checked="" type="checkbox"/> A06 <input type="checkbox"/> A11 <input type="checkbox"/> A12 <input type="checkbox"/> A15 <input type="checkbox"/> A16
<b>Sensor size, Connection size</b>			<b>Software functions and CT approvals</b> Standard	<input checked="" type="checkbox"/> B11
DN 15, DN 6 (1/2", 1/4") DN 15, DN 10 (1/2", 3/8") DN 15, DN 15 (1/2", 1/2") DN 15, DN 20 (1/2", 3/4") DN 15, DN 25 (1/2", 1")  DN 25, DN 25 (1", 1") DN 25, DN 32 (1", 1 1/4") DN 25, DN 40 (1", 1 1/2")  DN 50, DN 40 (2", 1 1/2") DN 50, DN 50 (2", 2")  DN 80, DN 65 (3", 2 1/2") DN 80, DN 80 (3", 3") DN 80, DN 100 (3", 4")	3 E 3 F 3 G 3 H 3 J  3 L 3 M 3 N  4 B 4 C  4 J 4 K 4 L	A 0 A 1 A 2 A 3  B 1  A 5 A 6 A 7 A 8  D 1 D 2 D 3 D 4  E 1 E 3  F 1  G 1  H 1 H 2 H 3 H 4  J 1 J 5  K 1 K 5  L 2 L 4 L 6 L 7	<b>I/O configuration Ch1</b> Modbus RTU RS 485	<input checked="" type="checkbox"/> E14
<b>Process connection</b>			<b>I/O configuration Ch2, Ch3 and Ch4</b> None The Article No. structure for FC410 systems must be filled to <b>this level</b> , including "-Z" options A..., B..., E... and F...	<input checked="" type="checkbox"/> F00
EN1092-1 B1, PN 16 EN1092-1 B1, PN 40 EN1092-1 B1, PN 63 EN1092-1 B1, PN 100 EN1092-1 B1, PN 160  EN1092-1 D, PN 40 EN1092-1 D, PN 63 EN1092-1 D, PN 100 EN1092-1 D, PN 160  ANSI B16.5, RF, class 150 ANSI B16.5, RF, class 300 ANSI B16.5, RF, class 600 ANSI B16.5, RF, class 900  ISO228-1 G pipe thread ASME B1.20.1 NPT pipe thread  DIN 11851 Hygienic screwed DIN 32676-C (inch) Hygienic clamped DIN 11864-1 Hygienic screwed DIN 11864-2A BF-A Hygienic flanged metric DIN 11864-3A Hygienic clamped DIN 11864-2B BF-A Hygienic flanged NPS  ISO 2852 Hygienic clamped ISO 2853 Hygienic screwed  SMS 1145 Hygienic screwed Swagelok Quick Connect  JIS B2200/10K JIS B2200/20K JIS B2200/40K JIS B2200/63K			↗ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol  . For details see page 9/5 in the appendix.	
<b>Wetted parts material</b>		1		
AISI 316L/W1.4435/W1.4404 (100 barg max.)				
<b>Calibration/Accuracy class</b>				
0.1 % flow, 5 kg/m³ density 0.1 % flow, 1 kg/m³ density Standard fraction calibration		1 4 8		
<b>Ex approval</b>				
Non-Ex ATEX II 2GD IECEx GDb FM, Class 1, Div 1 CSA, Class 1, Zone 1		A C F H M		

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## Flow Measurement

SITRANS FC

### Flowmeter SITRANS FC410

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

<sup>1)</sup> M12 versions of cable have a plug at both ends.

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### Operating instructions for SITRANS FC410

Description	Article No.
• English	<b>A5E33120874</b>
• German	<b>A5E33124885</b>
• Spanish	<b>A5E33209358</b>
• French	<b>A5E33209377</b>
• Italian	<b>A5E33209408</b>
• Chinese	<b>A5E33209431</b>

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**Accessories**

Description	Article No.		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	<b>A5E31478498</b>		Standard cable (Ex) with M12 plugs, PO insulation and PUR sleeve, blue, -40 ... +80 °C (-40 ... +176 °F)	<b>A5E03914929</b>	
Bag of glands (metric) in black plastic <sup>1)</sup>	<b>A5E03907414</b>		• 5 m • 10 m • 25 m • 50 m • 75 m • 150 m	<b>A5E03914962</b> <b>A5E03914995</b> <b>A5E03915004</b> <b>A5E03915074</b> <b>A5E03915088</b>	
Bag of glands, (metric) in gray plastic Ex e/i <sup>1)</sup>	<b>A5E03907424</b>		Standard cable (Ex) for termination, PO insulation and PUR sleeve, blue, -40 ... +80 °C (-40 ... +176 °F)	<b>A5E03914945</b>	
Bag of glands (metric) in AISI 316 SS Ex e/i <sup>1)</sup>	<b>A5E03907429</b>		• 5 m • 10 m • 25 m • 50 m • 75 m • 150 m	<b>A5E03914973</b> <b>A5E03914984</b> <b>A5E03915015</b> <b>A5E03915057</b> <b>A5E03915100</b>	
Bag of glands (metric) in NiPlatedBrass Ex e/i <sup>1)</sup>	<b>A5E03907430</b>		Suitcase for comprehensive sales support and training for FC430 It comes in a special suitcase with a fan implemented that allows the flowmeter to demonstrate airflow.	<b>A5E31467598</b>	
Bag of glands (NPT) in black plastic <sup>2)</sup>	<b>A5E03907435</b>		Suitcase for comprehensive sales support and training for FC410. 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.	<b>A5E33219071</b>	
Bag of glands (NPT) in gray plastic Ex e/i <sup>2)</sup>	<b>A5E03907451</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>	
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) • 10 m (32.8 ft) • 25 m (82 ft) • 50 m (164 ft) • 75 m (246 ft) • 150 m (492 ft)	<b>A5E03914805</b> <b>A5E03914850</b> <b>A5E03914853</b> <b>A5E03914859</b> <b>A5E03914861</b> <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) • 10 m (32.8 ft) • 25 m (82 ft) • 50 m (164 ft) • 75 m (246 ft) • 150 m (492 ft)	<b>A5E03914833</b> <b>A5E03914849</b> <b>A5E03914854</b> <b>A5E03914856</b> <b>A5E03914864</b> <b>A5E03914873</b>				

## Flow Measurement

### SITRANS F C

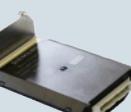
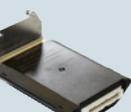
#### Flowmeter - Accessories/Spare parts

Description	Article No.		Description	Dimension	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			Mating parts for hygienic fittings DIN 11851 Includes: • 2 unions • 2 mating parts (for welding in) • 2 EPDM gaskets	DN 10 DN 15 DN 25 DN 32 DN 40 DN 50 DN 65	<b>FDK:085U1016</b> <b>FDK:085U1017</b> <b>FDK:085U1019</b> <b>FDK:085U1020</b> <b>FDK:085U1021</b> <b>FDK:085U1022</b> <b>FDK:085U1023</b>
• 230 V AC - DN 15 electric - DN 25 electric - DN 50 electric - DN 80 electric	<b>A5E33035287</b>		Mating parts for hygienic clamp ISO 2852 Includes: • 2 clamps • 2 mating parts • 2 EPDM gaskets	25 mm 40 mm 50 mm	<b>FDK:085U1029</b> <b>FDK:085U1031</b> <b>FDK:085U1032</b>
• 115 V AC - DN 15 electric - DN 25 electric - DN 50 electric - DN 80 electric	<b>A5E32877520</b> <b>A5E32877556</b> <b>A5E32877557</b> <b>A5E32877561</b>		2 EPDM gaskets with collar for mounting set DIN 11851	DN 10 DN 15 DN 25 DN 32 DN 40 DN 50 DN 65	<b>FDK:085U1006</b> <b>FDK:085U1007</b> <b>FDK:085U1009</b> <b>FDK:085U1010</b> <b>FDK:085U1011</b> <b>FDK:085U1012</b> <b>FDK:085U1013</b>
Heating jacket controller, IP65. Digital display for 0 ... 200 °C (32 ... 392 °F) control setpoint	<b>A5E03839193</b> <b>A5E03839194</b>				

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

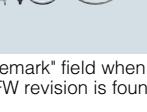
<sup>2)</sup> 2 pcs ½" NPT; 1 pce ½" NPT with single and dual cable inserts

**Flowmeter - Accessories/Spare parts****Spare parts - transmitter FCT030**

Description	Article No.	
Display and keypad assembly with firewire connection to the transmitter module <sup>1)</sup>	<b>A5E03548971</b>	
Sensor interface (Compact). Front end flow calculator and process detection. SIL 3 approved <sup>1)</sup>	<b>A5E03549142</b>	
Sensor interface (Remote); barrier unit for high speed digital communication and Ex ib power supply to remote front end DSL module	<b>A5E03549098</b>	
Display lid in painted aluminum with Ex glass plate and o-ring seal	<b>A5E03549344</b>	
Transmitter cassette (active) with SIL approved 4 ... 20 mA output and HART 7.2 <sup>1)</sup>	<b>A5E03549357</b>	
Transmitter cassette (passive) with SIL approved 4 ... 20 mA output and HART 7.2 <sup>1)</sup>	<b>A5E03549383</b>	
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	<b>A5E03549396</b>	
Power supply 240 V AC, 47 ... 63 Hz 24 ... 90 V DC	<b>A5E03549413</b>	
Blind lid in painted aluminum with o-ring seal	<b>A5E03549429</b>	
I/O assembly Advise Order code F00 to F97 from Selection and Ordering data <sup>2)</sup>	<b>A5E03939114</b>	
SensorFlash (micro SD card)	<b>A5E03915258</b>	

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	<b>A5E03906091</b>	
M12 option for sensor housing in stainless steel. Pre-wired and potted to replace M12 socket in DSL housing	<b>A5E03906095</b>	
M12 option - remote - in painted aluminum. Pre-wired and potted replacement M12 connection for FCT030 transmitter remote version	<b>A5E03906104</b>	
Remote terminal house - M20	<b>A5E03906112</b>	
Remote terminal house - NPT - in painted aluminum for sensor cable termination at FCT030 transmitter remote version. Pre-wired and potted	<b>A5E03906130</b>	

**Spare parts - sensor FCS400**

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

<sup>1)</sup> 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"

<sup>2)</sup> 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

# FINE CONTROLS (UK) LTD



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