

Selection and Ordering data

SITRANS FCS400 Standard Flow sensor with hygienic and flange/pipe thread connections for SITRANS FC430 Digital coriolis flowmeter

Replacement sensor FCS400 ordered with or without a DSL according to service requirements. For compact or remote mounting with FCT030 transmitter

Sensor size, connection size

DN 15, DN 10 (½", 3/8"), Q _{nom} = 3 700 m ³ /h	◆	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"), Q _{nom} = 11 500 m ³ /h	◆	3 K	
DN 25, DN 25 (1", 1")	◆	3 L	
DN 25, DN 40 (1", 1½")	◆	3 N	
DN 50, DN 40 (2", 1½"), Q _{nom} = 52 000 m ³ /h	◆	4 B	
DN 50, DN 50 (2", 2")	◆	4 C	
DN 80, DN 65 (3", 2½"), Q _{nom} = 136 000 m ³ /h	◆	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	
DIN11864-1 aseptic screwed	◆	H 1	
DIN11864-2 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	
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Calibration/Accuracy class

0,1 % flow, 5 kg/m ³ density	◆	1	
0,1 % flow, 1 kg/m ³ 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

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Replacement sensor FCS400 ordered with or without a DSL according to service requirements. For compact or remote mounting with FCT030 transmitter

Transmitter/DSL material & mounting style

None		A	
DSL, IP67, aluminum, M12		N	
DSL, IP67, aluminum, M12, T/Box		Q	

Ex approval

Non-Ex	◆	A	
ATEX II 2GD	◆	C	
IECEx Gdb	◆	F	
FM/CSA/UL Class 1, Div 1	◆	H	

Local User Interface

None	◆	0	
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◆ 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

None	◆	A00	
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

None	◆	B10	
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I/O configuration Ch1

None	◆	E00	
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I/O configuration Ch2, Ch3 and Ch4

None		F00	
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

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
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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.

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<http://www.siemens.com/flowdocumentation>

Selection and Ordering data	Order No.	Ord. code
SITRANS FCS400 Flow sensor Hygienic version with Ra < 0.8 µm. EHEDG and 3A approved for SITRANS FC430 Digital coriolis flowmeter Replacement sensor ordered with or without a DSL according to service requirements. For compact or remote mounting with FCT030 transmitter	7 ME 4 6 2 0 -	
Sensor size, connection size		
DN 15, DN 10 (½", 3/8")	3 F	
DN 15, DN 15 (½", ½")	3 G	
DN 15, DN 20 (½", ¾")	3 H	
DN 15, DN 25 (½", 1")	3 J	
DN 25, DN 25 (1", 1")	3 L	
DN 25, DN 25 (1", 1¼")	3 M	
DN 25, DN 40 (1", 1½")	3 N	
DN 50, DN 40 (2", 1½")	4 B	
DN 50, DN 50 (2", 2")	4 C	
DN 80, DN 65 (3", 2½")	4 J	
DN 80, DN 80 (3", 3")	4 K	
Process connection		
DIN 11851 0,8 µm screwed	F 1	
DIN 32676 0,8 µm Tri-Clamp	G 2	
DIN 11864-1 0,8 µm screwed	H 1	
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		
ISO228-1 G pipe thread	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		
None		A
DSL, IP67, aluminum, M12		N
DSL, IP67, aluminum, M12, T/Box		Q
Ex approval		
Non-Ex		A
ATEX II 2GD		C
IECEX GDb		F
FM/CSA/UL Class 1, Div 1		H
Local User Interface		
None		0

◆ 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	
None	◆ A00
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	
None	◆ B10
I/O configuration Ch1	
None	◆ E00
I/O configuration Ch2, Ch3 and Ch4	
None	F00
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 accessoriesPlease 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

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 dataPlease add **"-Z"** to Order No. and specify Order code(s) and plain text.**Tag name**

Tag name plate, stainless steel	Y17
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Customer specific calibration

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Customer specific calibration (10 flow x 1 point)	Y62

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Selection and Ordering data	Order No.	Ord. code
SITRANS FCS400 NAMUR compliant flow sensor with flange/pipe thread connections for SITRANS FC430 Digital coriolis flowmeter Replacement sensor ordered with or without a DSL according to service requirements. For compact or remote mounting with FCT030 transmitter	7ME4710-	
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		
None		A
DSL, IP67, aluminum, M12		N
DSL, IP67, aluminum, M12, T/Box		Q
Ex approval		
Non-Ex	◆	A
ATEX II 2GD	◆	C
IECEX GDb	◆	F
FM/CSA/UL Class 1, Div 1	◆	H
Local User Interface		
None	◆	0

◆ 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	
None	◆ A00
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	
None	◆ B10
I/O configuration Ch1	
None	◆ E00
I/O configuration Ch2, Ch3 and Ch4	
None	F00
The MLFB structure for FC430 systems must be filled to this level , including "-Z" options A..., B..., E... and F...	

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