

Flow Measurement SITRANS F C

Flowmeter SITRANS FC430

3

| 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 | 7ME4613- | |
| 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 B2200:2004/20K | L 4 | |
| JIS B2200:2004/40K | 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 | 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, 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

Selection and Ordering data

I/O configuration Ch2, Ch3 and Ch4

| Order code |
|------------|
| None |
| ◆ 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 | 7 ME 4 6 2 3 - | | 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

Selection and Ordering data

I/O configuration Ch2, Ch3 and Ch4

| Order code |
|------------|
| None |
| ◆ 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

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 |

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| Selection and Ordering data | Article No. | Ord. code | Selection and Ordering data | Order code |
|---|----------------------|-----------|--|------------|
| SITRANS FC430 Digital coriolis flowmeter | 7ME 4 7 1 3 - | | Further designs | |
| with SITRANS FCS400 NAMUR compliant flow sensor with flange/pipe thread connections and compact or remote mounting with FCT030 transmitter | | | Please add "-Z" to Article No. and specify Order code(s). | |
| Sensor size, Connection size | | | Cable glands | |
| DN 15, DN 15 (½", ½") | ◆ 3 G | | Metric, no glands | ◆ A01 |
| DN 25, DN 25 (1", 1") | ◆ 3 L | | Metric, plastic | ◆ A02 |
| DN 50, DN 50 (2", 2") | ◆ 4 C | | Metric, brass/Ni plated | A05 |
| DN 80, DN 80 (3", 3") | ◆ 4 K | | Metric, stainless steel | ◆ A06 |
| Process connection | | | NPT, no glands | A11 |
| EN1092-1 B1, PN 40 | ◆ A 1 | | NPT, plastic | A12 |
| EN1092-1 B1, PN 100 | ◆ A 3 | | NPT, brass/Ni plated | A15 |
| ANSI B16.5-2009, class 150 | ◆ D 1 | | NPT, stainless steel | A16 |
| ANSI B16.5-2009, class 600 | ◆ D 3 | | Software functions and CT approvals | |
| ISO228-1 G pipe thread | ◆ E 1 | | Standard | ◆ B11 |
| ASME B1.20.1 NPT pipe thread | ◆ E 3 | | CT standard | B31 |
| Wetted parts material | | | I/O configuration Ch1 | |
| AISI 316L/W1.4435/W1.4404 (100 barg max.) | ◆ 1 | | Ca 4 ... 20 mA HART active, SIL certified | ◆ E04 |
| Calibration/Accuracy class | | | Cp 4 ... 20 mA HART passive, SIL certified | ◆ E05 |
| 0,1 % flow, 5 kg/m³ density | ◆ 1 | | Ca 4 ... 20 mA HART active | E06 |
| 0,1 % flow, 1 kg/m³ density | ◆ 4 | | Cp 4 ... 20 mA HART passive | E07 |
| 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 & 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 | | | |

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Flow Measurement

SITRANS F C

Flowmeter SITRANS FC430

Selection and Ordering data

I/O configuration Ch2, Ch3 and Ch4

| Selection and Ordering data | 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:

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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 |
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| 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 |

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Operating instructions for SITRANS FC430

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|-------------|-------------|
| • English | A5E03361511 |
| • German | A5E03651143 |
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