

Selection and Ordering data		Order No.
SITRANS FX300 Flanged Single transmitter and T _{max} = 240 °C (464 °F)		7 ME 2 6 0 0 -
Connection size	Sensor size	
DN 15 (½")	DN 15	1 A
DN 25 (1")	DN 25	2 B
DN 40 (1½")	DN 40	2 K
DN 50 (2")	DN 50	2 R
DN 80 (3")	DN 80	3 L
DN 100 (4")	DN 100	3 S
DN 150 (6")	DN 150	4 M
DN 200 (8")	DN 200	4 T
DN 250 (10")	DN 250	4 W
DN 300 (12")	DN 300	5 E

Flange norm and nominal pressure		
Form B1/B2	EN 1092-1	
PN 10	DN 200 ... 300	A
PN 16	DN 50 ... 300	B
PN 25	DN 200 ... 300	C
PN 40	DN 15 ... 300	D
PN 63	DN 50 ... 150	E
PN 100	DN 15 ... 150	F
RF	ASME B16.5	
150 lb	½ ... 12"	J
300 lb	½ ... 12"	K
600 lb	½ ... 6"	L

Sensor material/Gasket	
St. steel AISI 316L (1.4404)/AISI 316L (1.4435)/ FPM	1
St. steel AISI 316L (1.4404)/AISI 316L (1.4435)/ FFKM	5

Transmitter design	
Compact version - no cable	1
Remote version:	
5 m (16.4 ft)	2
10m (32.8 ft)	3
15 m (49.2 ft)	4
20 m (65.6 ft)	5
25 m (82.0 ft)	6
30 m (98.4 ft)	7

Approval and cable gland	
Non-Ex, M20 x 1.5	1
Non-Ex, ½" NPT	2
ATEX, M20 x 1.5	4
ATEX, ½" NPT	5
FM US/C, M20 x 1.5	6
FM US/C, ½" NPT	7

Transmitter, display and communication	
With display, HART	A

Pressure sensor and isolation valve	
Without pressure sensor	A
With pressure sensor, range:	
4 bar (58 psi)	B
6 bar (87 psi)	D
10 bar (145 psi)	E
16 bar (232 psi)	G
25 bar (363 psi)	H
40 bar (580 psi)	K
60 bar (870 psi)	L
100 bar (1450 psi)	N
With isolation valve and pressure sensor, range:	
4 bar (58 psi)	P
6 bar (87 psi)	Q
10 bar (145 psi)	R
16 bar (232 psi)	S
25 bar (363 psi)	U
40 bar (580 psi)	V
60 bar (870 psi)	W
100 bar (1450 psi)	Y

Selection and Ordering data	Order No.
SITRANS FX300 Flanged Single transmitter and T _{max} = 240 °C (464 °F)	7 ME 2 6 0 0 -
Software	
Uncompensated for gases, wet gases, steam and liquids, respectively, temperature compensation for saturated steam	1
Density compensation for superheated steam	4
Density compensation for superheated steam and setting of Gross heat Opt. Y51 ... Y56 for Energy measuring	5
Density compensation for gases and wet gases and setting of Relative humidity at opt. Y49	7
Density compensation for gases, wet gases and setting of FAD - free air delivery Opt. Y49 and Y81 ... Y87 for Compressor settings	8

Selection and Ordering data

Order code

Additional information

Please add “-Z” to Order No. and specify as minimum Order code Y40, Y41, Y42 and Y45 and plain text.

Input process data

Medium: Specify steam, gas, liquid or customised **Y40**

Temperature: Specify max. operating temperature and units **Y41**

Pressure: Specify max. operating pressure and units **Y42**

Density (only by customer-specified medium): Specify medium density and units **Y43**

Viscosity (only by customer-specified medium): Specify medium viscosity and units **Y44**

Flow rate: Specify min./max. flow rate and units **Y45**

Setting of pulse output: Specify totalizer or energy unit (1 pulse/unit) **Y47**

Relative humidity (amount in % of process medium) **Y49**

Settings of gross heat

Variable current output **Y51**

Power unit (specify: kJ/h, MJ/h, GJ/h, Btu/h, kcal/h, kW, MW or special (custom)) **Y52**

Fullscale power value **Y53**

Variable pulse output **Y54**

Totalizer on/off **Y55**

Configure totalizer (specify: kJ, MJ, GJ, Btu th, kcal, kWh, MWh or special (custom)) **Y56**

Settings of FAD

Inlet suction temperature **Y81**

Atmosphere pressure **Y82**

Pressure drop filter **Y83**

Inlet relative humidity **Y84**

Actual revolutions per minute (of compressor) **Y85**

Rated Rpm of compressor **Y86**

Outlet relative humidity **Y87**

This information is available from compressor supplier.

Operating instructions**Description**

Order No.

English

A5E2100423

This device is shipped with a Quick Start guide and a CD containing further SITRANS F literature.

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

Selection and Ordering data

Order code

Further designs

Please add “-Z” to Order No. and specify Order code.

Converter housing material

Aluminum for increased requirement, color: petrol green

A10**Material certificate**

Certificate of compliance EN 10204-2.1

C10

Pressure test + 3.1 accordance EN 10204

C11

Material certificate pressure parts + certificate 3.1

C12

Material in accordance with NACE MR 0175-01

C13

PMI of pressure bearing metal parts + certificate 3.1

C14

Material certificate pressure parts + PMI/certificate 3.1

C15**Calibration certificate FX300**

As standard the flow device has a 3-point calibration certificate.

Calibration certificate (5 point)

D11**Hardness test**

Hardness test on pressure bearing parts + 3.1 Equotip LD procedure according to NACE MR 0175-01

H30**Cleaning for oil and fat**

Class 1 increased requirement (customer-specified) and 3.1 (EN 10204)

K46

Class 2 and 3.1 (EN 10204)

K48**Certificates**

X-ray test on ppressure bearing weldings

M56

Dye penetration test on pressure bearing weldings

M58**Tag name plate**

Stainless steel tag with 3 mm characters, max. 2 x 8 characters (40 x 20 mm, add plain text)

Y17

Stainless steel tag with 2.5 mm characters, max. 8 x 40 characters (120 x 46 mm, add plain text)

Y18

Selection and Ordering data

Order No.

SITRANS FX300 Sandwich
Single transmitter and T_{max} = 240 °C (464 °F)
7 ME 2 7 0 0 -
Connection size
Sensor size

DN 15 (½")	DN 15
DN 25 (1")	DN 25
DN 40 (1½")	DN 40
DN 50 (2")	DN 50
DN 80 (3")	DN 80
DN 100 (4")	DN 100

1 A
2 B
2 K
2 R
3 L
3 S
Nominal pressure
EN

PN 16	DN 50 ... 100
PN 40	DN 15 ... 100
PN 63	DN 50 ... 100
PN 100	DN 15 ... 100

B
D
E
F
ASME

150 lb	½ ... 4"
300 lb	½ ... 4"
600 lb	½ ... 4"

J
K
L
Sensor material/Gasket

St. steel AISI 316L (1.4404)/AISI 316L (1.4435)/FPM	1
St. steel AISI 316L (1.4404)/AISI 316L (1.4435)/FFKM	5

Transmitter design

Compact version - no cable	1
Remote version:	
5 m (16.4 ft)	2
10m (32.8 ft)	3
15 m (49.2 ft)	4
20 m (65.6 ft)	5
25 m (82.0 ft)	6
30 m (98.4 ft)	7

Approval and cable gland

Non-Ex, M20 x 1.5	1
Non-Ex, ½" NPT	2
ATEX, M20 x 1.5	4
ATEX, ½" NPT	5
FM US/C, M20 x 1.5	6
FM US/C, ½" NPT	7

Transmitter, display and communication

With display, HART

A
Pressure sensor and isolation valve

Without pressure sensor	A
With pressure sensor, range:	
4 bar (58 psi)	B
6 bar (87 psi)	D
10 bar (145 psi)	E
16 bar (232 psi)	G
25 bar (363 psi)	H
40 bar (580 psi)	K
60 bar (870 psi)	L
100 bar (1450 psi)	N
With isolation valve and pressure sensor, range:	
4 bar (58 psi)	P
6 bar (87 psi)	Q
10 bar (145 psi)	R
16 bar (232 psi)	S
25 bar (363 psi)	U
40 bar (580 psi)	V
60 bar (870 psi)	W
100 bar (1450 psi)	Y

Selection and Ordering data

Order No.

SITRANS FX300 Sandwich
Single transmitter and T_{max} = 240 °C (464 °F)
7 ME 2 7 0 0 -
Software

Uncompensated for gases, wet gases, steam and liquids respectively temperature compensation for saturated steam	1
Density compensation for superheated steam	4
Density compensation for superheated steam and setting of Gross heat Opt. Y51 ... Y56 for Energy measuring	5
Density compensation for gases and wet gases and setting of Relative humidity at opt. Y49	7
Density compensation for gases, wet gases and setting of FAD - free air delivery Opt. Y49 and Y81 ... Y87 for Compressor settings	8

Selection and Ordering data

Order code

Additional information

Please add "-Z" to Order No. and specify as minimum Order code Y40, Y41, Y42 and Y45 and plain text.

Input process data

Medium: Specify steam, gas, liquid and customised **Y40**

Temperature: Specify max. operating temperature and units **Y41**

Pressure: Specify max. operating pressure and units **Y42**

Density (only by customer-specified medium): Specify medium density and units **Y43**

Viscosity (only by customer-specified medium): Specify medium viscosity and units **Y44**

Flow rate: Specify min./max. flow rate and units **Y45**

Setting of pulse output: Specify totalizer or energy unit (1 pulse/unit) **Y47**

Relative humidity (amount in % of process medium) **Y49**

Settings of gross heat

Variable current output **Y51**

Power unit (specify: kJ/h, MJ/h, GJ/h, Btu/h, kcal/h, kW, MW or special (custom)) **Y52**

Fullscale power value **Y53**

Variable pulse output **Y54**

Totalizer on/off **Y55**

Configure totalizer (specify: kJ, MJ, GJ, Btu th, kcal, kWh, MWh or special (custom)) **Y56**

Settings of FAD

Inlet suction temperature **Y81**

Atmosphere pressure **Y82**

Pressure drop filter **Y83**

Inlet relative humidity **Y84**

Actual revolutions per minute (of compressor) **Y85**

Rated Rpm of compressor **Y86**

Outlet relative humidity **Y87**
This information is available from compressor supplier.

Operating instructions**Description**

Order No.

English

A5E2100423

This device is shipped with a Quick Start guide and a CD containing further SITRANS F literature.

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

Selection and Ordering data

Order code

Further designs

Please add "-Z" to Order No. and specify Order code.

Converter housing material

Aluminum for increased requirement, color: petrol green

A10**Material certificate**

Certificate of compliance EN 10204-2.1

C10

Pressure test + 3.1 accordance EN 10204

C11

Material certificate pressure parts + certificate 3.1

C12

Material in accordance with NACE MR 0175-01

C13

PMI of pressure bearing metal parts + certificate 3.1

C14

Material certificate pressure parts + PMI/certificate 3.1

C15**Calibration certificate FX300**

As standard the flow device has a 3-point calibration certificate.

Calibration certificate (5-point)

D11**Hardness test**

Hardness test on pressure bearing parts + 3.1 Equotip LD procedure according to NACE MR 0175-01

H30**Cleaning for oil and fat**

Class 1 increased requirement (customer-specified) and 3.1 (EN 10204)

K46

Class 2 and 3.1 (EN 10204)

K48**Certificates**

X-ray test on pressure bearing weldings

M56

Dye penetration test on pressure bearing weldings

M58**Tag name plate**

Stainless steel tag with 3 mm characters, max. 2 x 8 characters (40 x 20 mm, add plain text)

Y17

Stainless steel tag with 2.5 mm characters, max. 8 x 40 characters (120 x 46 mm, add plain text)

Y18

Selection and Ordering data		Order No.
SITRANS FX300 Flanged Dual transmitter and T_{max} = 240 °C (464 °F)		7 ME 2 8 0 0 -
Connection size	Sensor size	
DN 40 (1½")	DN 40	2 K
DN 50 (2")	DN 50	2 R
DN 80 (3")	DN 80	3 L
DN 100 (4")	DN 100	3 S
DN 150 (6")	DN 150	4 M
DN 200 (8")	DN 200	4 T
DN 250 (10")	DN 250	4 W
DN 300 (12")	DN 300	5 E
Flange norm and nominal pressure		
Form B1/B2	EN 1092-1	
PN 10	DN 200 ... 300	A
PN 16	DN 50 ... 300	B
PN 25	DN 200 ... 300	C
PN 40	DN 40 ... 300	D
PN 63	DN 50 ... 150	E
PN 100	DN 40 ... 150	F
RF	ASME B16.5	
150 lb	1½ ... 12"	J
300 lb	1½ ... 12"	K
600 lb	1½ ... 6"	L
Sensor material/Gasket		
Stainless steel AISI 316L (1.4404)/ AISI 316L (1.4435)/FPM		1
Stainless steel AISI 316L (1.4404)/ AISI 316L (1.4435)/FFKM		5
Transmitter design		
Compact version - no cable		1
Remote version:		
5 m (16.4 ft)		2
10 m (32.8 ft)		3
15 m (49.2 ft)		4
20 m (65.6 ft)		5
25 m (82.0 ft)		6
30 m (98.4 ft)		7
Approval and cable gland		
Non-Ex, M20 x 1.5		1
Non-Ex, ½" NPT		2
ATEX, M20 x 1.5		4
ATEX, ½" NPT		5
FM US/C, M20 x 1.5		6
FM US/C, ½" NPT		7
Transmitter, display and communication		
With display, HART		A
Pressure sensor and isolation valve		
Without pressure sensor		A
Software		
Uncompensated for gases, wet gases, steam and liquids respectively temperature compensation for saturated steam		1

Selection and Ordering data	Order code
Additional information Please add "-Z" to Order No. and specify as minimum Order code Y40, Y41, Y42 and Y45 and plain text.	
Input process data	
Medium: Specify steam, gas, liquid and customised	Y40
Temperature: Specify max. operating temperature and units	Y41
Pressure: Specify max. operating pressure and units	Y42
Density (only by customer-specified medium): Specify medium density and units	Y43
Viscosity (only by customer-specified medium): Specify medium viscosity and units	Y44
Flow rate: Specify min./max. flow rate and units	Y45
Setting of pulse output; Specify totalizer or energy unit (1 pulse/unit)	Y47
Relative humidity (amount in % of process medium)	Y49
Operating instructions for SITRANS FX300	

Description	Order No.
English	A5E2100423
This device is shipped with a Quick Start guide and a CD containing further SITRANS F literature.	
All literature is also available for free at: http://www.siemens.com/flowdocumentation	

Selection and Ordering data	Order code
Further designs Please add "-Z" to Order No. and specify Order code.	
Converter housing material	
Aluminum for increased requirement, color: petrol green	A10
Material certificate	
Certificate of compliance EN 10204-2.1	C10
Pressure test + 3.1 accordance EN 10204	C11
Material certificate pressure parts + certificate 3.1	C12
Material in accordance with NACE MR 0175-01	C13
PMI of pressure bearing metal parts + certificate 3.1	C14
Material certificate pressure parts + PMI/certificate 3.1	C15
Calibration certificate FX300	
As standard the flow device has a 3-point calibration certificate.	
Calibration certificate (5-point)	D11
Hardness test	
Hardness test on pressure bearing parts + 3.1 Equotip LD procedure according to NACE MR 0175-01	H30
Cleaning for oil and fat	
Class 1 increased requirement (customer-specified) and 3.1 (EN 10204)	K46
Class 2 and 3.1 (EN 10204)	K48
Certificates	
X-ray test on pressure bearing weldings	M56
Dye penetration test on pressure bearing weldings	M58
Tag name plate	
Stainless steel tag with 3 mm characters, max. 2 x 8 characters (40 x 20 mm, add plain text)	Y17
Stainless steel tag with 2.5 mm characters, max. 8 x 40 characters (120 x 46 mm, add plain text)	Y18