

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
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
DN 150 (6")	DN 150
DN 200 (8")	DN 200
DN 250 (10")	DN 250
DN 300 (12")	DN 300

- 1 A
- 2 B
- 2 K
- 2 R
- 3 L
- 3 S
- 4 M
- 4 T
- 4 W
- 5 E

Flange norm and nominal pressure

Form B1/B2	EN 1092-1
PN 10	DN 200 ... 300
PN 16	DN 50 ... 300
PN 25	DN 200 ... 300
PN 40	DN 15 ... 300
PN 63	DN 50 ... 150
PN 100	DN 15 ... 150
RF	ASME B16.5
150 lb	½ ... 12"
300 lb	½ ... 12"
600 lb	½ ... 6"

- A
- B
- C
- D
- E
- F
- J
- K
- L

Sensor material/Gasket

Stainless steel 1.4404 (316L)/1.4435 (316L)/FPM
Stainless steel 1.4404 (316L)/1.4435 (316L)/FFKM

- 1
- 5

Transmitter design

Compact, no cable

- 1

Approval and cable gland

Non-Ex, M20 x 1.5
Non-Ex, ½" NPT
ATEX, M20 x 1.5
ATEX, ½" NPT
FM US/C, M20 x 1.5
FM US/C, ½" NPT

- 1
- 2
- 4
- 5
- 6
- 7

Transmitter, display and communication

With display, HART

- A

Pressure sensor and isolation valve

Without pressure sensor
With pressure sensor, range:
4 bar
6 bar
10 bar
16 bar
25 bar
40 bar
60 bar
100 bar
With isolation valve and pressure sensor, range:
4 bar
6 bar
10 bar
16 bar
25 bar
40 bar
60 bar
100 bar

- A
- B
- D
- E
- G
- H
- K
- L
- N
- P
- Q
- R
- S
- U
- V
- W
- Y

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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

Accessories

Operating instructions for SITRANS FX300

English

A5E02100423

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 code
Additional data Please add “-Z” to Order No. and specify Order code 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 %)	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 This information is available from compressor supplier.	Y87

Selection and Ordering data		Order No.	Selection and Ordering data		Order code
SITRANS FX300 Sandwich Single transmitter and T _{max} = 240 °C (464 °F)		7 ME 2 7 0 0 -	Further designs Please add “-Z” to Order No. and specify Order code.		
Connection size	Sensor size		Converter housing material		
DN 15 (½")	DN 15	1 A	Aluminum for increased requirement, color: petrol green		A10
DN 25 (1")	DN 25	2 B	Material certificate		
DN 40 (1½")	DN 40	2 K	Certificate of compliance EN 10204-2.1		C10
DN 50 (2")	DN 50	2 R	Pressure test + 3.1 accordance EN 10204		C11
DN 80 (3")	DN 80	3 L	Material certificate pressure parts + certificate 3.1		C12
DN 100 (4")	DN 100	3 S	Material in accordance with NACE MR 0175-01		C13
Nominal pressure			PMI of pressure bearing metal parts + certificate 3.1		C14
EN			Material certificate pressure parts + PMI/certificate 3.1		C15
PN 16	DN 50 ... 100	B	Calibration certificate FX300		
PN 40	DN 15 ... 100	D	As standard the flow device has a 3-point calibration certificate.		
PN 63	DN 50 ... 100	E	Calibration certificate (5-point)		D11
PN 100	DN 15 ... 100	F	Hardness test		
ASME			Hardness test on pressure bearing parts + 3.1 Equotip LD procedure according to NACE MR 0175-01		H30
150 lb	½ ... 4"	J	Cleaning for oil and fat		
300 lb	½ ... 4"	K	Class 1 increased requirement (customer-specified) and 3.1 (EN 10204)		K46
600 lb	½ ... 4"	L	Class 2 and 3.1 (EN 10204)		K48
Sensor material/Gasket			Certificates		
Stainless steel 1.4404 (316L)/1.4435 (316L)/FPM		1	X-ray test on pressure bearing weldings		M56
Stainless steel 1.4404 (316L)/1.4435 (316L)/FFKM		5	Dye penetration test on pressure bearing weldings		M58
Transmitter design			Tag name plate		
Compact, no cable		1	Stainless steel tag with 3 mm characters, max. 2 x 8 characters (40 x 20 mm, add plain text)		Y17
Approval and cable gland			Stainless steel tag with 2.5 mm characters, max. 8 x 40 characters (120 x 46 mm, add plain text)		Y18
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		B			
6 bar		D			
10 bar		E			
16 bar		G			
25 bar		H			
40 bar		K			
60 bar		L			
100 bar		N			
With isolation valve and pressure sensor, range:					
4 bar		P			
6 bar		Q			
10 bar		R			
16 bar		S			
25 bar		U			
40 bar		V			
60 bar		W			
100 bar		Y			
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 data

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

Selection and Ordering data		Order No.	Selection and Ordering data		Order code
SITRANS FX300 Flanged Dual transmitter and T_{max} = 240 °C (464 °F)		7 ME 2 8 0 0 -	Further designs		
			Please add "-Z" to Order No. and specify Order code.		
Connection size	Sensor size		Converter housing material		
DN 40 (1½")	DN 40	2 K	Aluminum for increased requirement, color: petrol green	A10	
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			Material certificate		
Form B1/B2	EN 1092-1		Certificate of compliance EN 10204-2.1	C10	
PN 10	DN 200 ... 300	A	Pressure test + 3.1 accordance EN 10204	C11	
PN 16	DN 50 ... 300	B	Material certificate pressure parts + certificate 3.1	C12	
PN 25	DN 200 ... 300	C	Material in accordance with NACE MR 0175-01	C13	
PN 40	DN 40 ... 300	D	PMI of pressure bearing metal parts + certificate 3.1	C14	
PN 63	DN 50 ... 150	E	Material certificate pressure parts + PMI/certificate 3.1	C15	
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			Calibration certificate FX300		
Stainless steel 1.4404 (316L)/1.4435 (316L)/FPM		1	As standard the flow device has a 3-point calibration certificate.		
Stainless steel 1.4404 (316L)/1.4435 (316L)/FFKM		5	Calibration certificate (5-point)	D11	
Transmitter design			Hardness test		
Compact, no cable		1	Hardness test on pressure bearing parts + 3.1 Equotip LD procedure according to NACE MR 0175-01	H30	
Approval and cable gland			Cleaning for oil and fat		
Non-Ex, M20 x 1.5		1	Class 1 increased requirement (customer-specified) and 3.1 (EN 10204)	K46	
Non-Ex, ½" NPT		2	Class 2 and 3.1 (EN 10204)	K48	
ATEX, M20 x 1.5		4			
ATEX, ½" NPT		5	Certificates		
FM US/C, M20 x 1.5		6	X-ray test on pressure bearing weldings	M56	
FM US/C, ½" NPT		7	Dye penetration test on pressure bearing weldings	M58	
Transmitter, display and communication			Tag name plate		
With display, HART		A	Stainless steel tag with 3 mm characters, max. 2 x 8 characters (40 x 20 mm, add plain text)	Y17	
Pressure sensor and isolation valve			Stainless steel tag with 2.5 mm characters, max. 8 x 40 characters (120 x 46 mm, add plain text)	Y18	
Without pressure sensor		A			
Software			Additional data		
Uncompensated for gases, wet gases, steam and liquids respectively temperature compensation for saturated steam		1	Please add "-Z" to Order No. and specify Order code and plain text.		
			Input process data		
			Medium: Specify steam, gas, liquid and customised	Y40	
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			Density; (only by customer-specified medium): Specify medium density and units	Y43	
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			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 %)	Y49	