

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter
Overview


MASS 2100 DI 3 to DI 15 is suitable for accurate mass flow measurement of a variety of liquids and gases.

The sensor offers superior performance in terms of flow accuracy, turn-down ratio and density accuracy. The ease of installation through a "plug & play" mechanical and electrical interface ensures optimum performance and operation.

The sensor delivers true multi-parameter measurements i.e.: Mass flow, volume flow, density, temperature and fraction.

Benefits

- High accuracy better than 0.1 % of mass flow rate
- Large dynamic turn-down ratio better than 500:1
- Densitometer performance available through density accuracy (depending upon sensor size) ranging from 0.0005 to 0.0015 g/cm³ with a typical repeatability better than 0.0001 to 0.0002 g/cm³
- Single continuous tube design, with no internal welds, reductions or flow splitters offers optimal hygiene, safety and CIP cleanability for food and beverage and pharmaceutical applications
- Markets' thickest sensor walls ensure optimal life-time and corrosion resistance and high-pressure durability
- Full bore design provides lower pressure loss due to same internal diameter throughout the entire sensor
- Balanced pipe design with little mechanical energy loss, ensures optimal performance and stability under non-ideal and unstable process conditions (pressure, temperature, density changes etc.)
- 4-wire Pt1000 temperature measurement ensures optimum accuracy on mass flow, density and fraction flow
- Multi-plug electrical connector and Sensor Flash/SENSORPROM enables true "plug & play". Installation and commissioning in less than 10 minutes
- Intrinsically safe Ex design ia IIC as standard, making service in hazardous area possible without having to demount the sensor if a compact Ex d transmitter needs service
- Sensor pipe available in high-quality stainless steel AISI 316L/1.4435 or Hastelloy C22/2.4602 offering optimum corrosion resistance
- Centre-block design decouples process noise from the environment such as vibrations, pulsations, pressure shocks etc. making installation flexible and versatile
- Rugged and space-saving sensor design in stainless steel matching all environments
- High-pressure program as standard
- The sensor calibration factor is also valid for gas measurement
- Uniform sensor interface matching all transmitter versions at the same time whether it is compact IP67/NEMA 6, compact Ex d or remote installation, one sensor fits all

Application

Coriolis mass flowmeters are suitable for measuring all liquids and gases. The measurement is independent of changes in process conditions/parameters such as temperature, density, pressure, viscosity, conductivity and flow profile.

Due to this versatility the meter is easy to install and the Coriolis flowmeter is recognized for its high accuracy in a wide turn-down ratio which is a paramount in many applications.

The main applications of the Coriolis flowmeter can be found in all industries, such as:

Chemical and pharma	Detergents, bulk chemicals, pharmaceuticals, acids, alkalis
Food and beverage	Dairy products, beer, wine, soft-drinks, Brix/Plato, fruit juices and pulps, bottling, CO ₂ dosing, CIP-liquids
Automotive	Fuel injection nozzle and pump testing, filling of AC units, engine consumption, paint robots
Oil and gas	Filling of gas bottles, furnace control, test separators, LPG
Water and waste water	Dosing of chemicals for water treatment

The wide variety of combinations and versions from the modular system means that ideal adaptation is possible to each measuring task.

Design

The MASS 2100 sensor consists of a single bent tube in a double bent pipe configuration, welded directly to the process connectors at each end.

The centre-block is brazed onto the sensor pipes from the outside acting as a mechanical low pass filter.

The sensor is available in 2 material configurations, AISI 316L/1.4404 or Hastelloy C22/2.4602 with a wide variety of process connections.

The enclosure is made in stainless steel AISI 316L/1.4404 with a grade of encapsulation of IP67.

The sensor is as standard Ex ia approved, intrinsically safe.

The sensor can be installed in horizontal or vertical position. In horizontal position the sensor is self draining.

Heating: All the sensors MASS 2100, DI 3 to DI 15, can optionally be equipped with a heating coil to avoid solidification of sensitive fluids during down-time or period between discontinuing processes. This feature gives the user an alternative to the costly electrical heating normally used, as it gives the freedom to choose either hot water, superheated steam or hot oil, to maintain a constant temperature inside the sensor.

Flow Measurement

SITRANS F C

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter

Function

The measuring principle is based on the Coriolis effect. See "System information SITRANS F C Coriolis mass flowmeters".

Integration

The sensor can be connected to FCT010, FCT030 and MASS 6000 (none CE) transmitters for compact and remote installation as well as SIFLOW FC070 standard and Ex type transmitters.

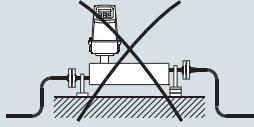
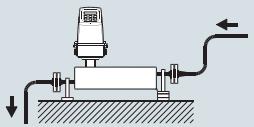
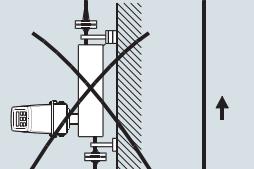
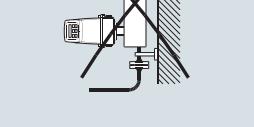
All sensors are delivered with a Sensor Flash or SENSORPROM containing all information about calibration data, identity and factory pre-programming of transmitter settings.

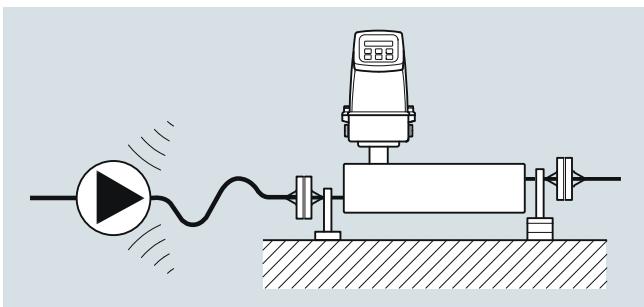
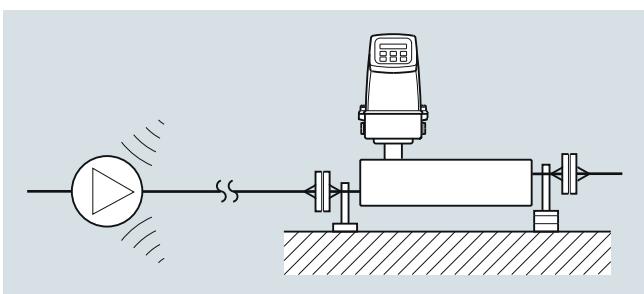
Installation guidelines MASS 2100 DI 3 ... DI 15 (1/8" ... 1/2")

Installation of sensor

In order to perform according to given specifications for flow and density accuracy, the sensor must be installed using rigid mounting brackets as shown in the installation examples.

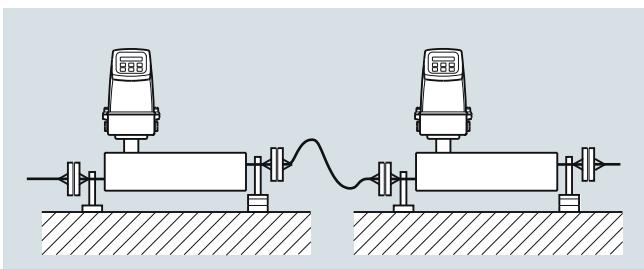
If the liquid is volatile or contains solid particles, vertical mounting is not recommended.

	Liquid	Gas
Horizontal	 	
Vertical	 	



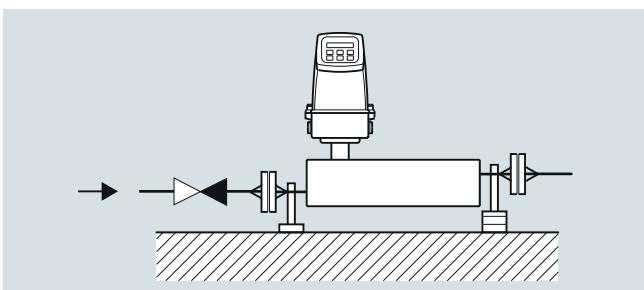
Vibration

Always locate the flowmeter as far away as possible from components that generate mechanical vibration in the piping.



Cross talk

Cross talk between sensors mounted close to each other may disturb the measurement. To avoid cross talk never mount more than one meter on each frame and mount flexible hose connections between the sensors as shown.



Zero point adjustment

To facilitate zero point adjustment a shut-off valve should always be mounted in connection with the sensor as a proper zero point setting is essential for a good accuracy.

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter**Technical specifications**

Versions (mm (inch))	DI 3 (1/8)	DI 6 (1/4)	DI 15 (5/8)	
Inside pipe diameter (sensor consists of one continuous pipe)	mm (inch)	3.0 (0.12)	6.0 (0.24)	14.0 (0.55)
Pipe wall thickness	mm (inch)	0.5 (0.02)	1.0 (0.04)	1.0 (0.04)
Mass flow measuring range (liquids)	kg/h (lb/h)	0 ... 250 (0 ... 550)	0 ... 1000 (0 ... 2200)	0 ... 5600 (0 ... 12345)
Density	g/cm ³ (lb/inch ³)		0 ... 2.9 (0 ... 0.10)	
Fraction e.g.	°Brix	0 ... 70 (applicable temperature range: 10 ... 99 °C (50 ... 210.2 °F))		
Temperature				
Media temperature	°C (°F)		-50 ... +180 °C (-58 ... +356 °F)	
Ambient temperature	°C (°F)		-20 ... +50 °C (-4 ... +122 °F)	
Liquid pressure measuring pipe¹⁾				
Stainless steel	bar (psi)	230 (3336)	265 (3844)	130 (1885)
Hastelloy C22/2.4602	bar (psi)	350 (5076)	410 (5946)	200 (2900)
Materials				
Measuring pipe, flange and thread connection			Stainless steel AISI 316L/1.4435 Hastelloy C22/2.4602	
Enclosure and enclosure material		IP67 (NEMA 4) and stainless steel AISI 316L/1.4404, The housing is not rated for pressure containment		
Process connections²⁾				
Flange				
EN 1092-1, PN 40		DN 10	DN 15	
ANSI B16.5, Class 150		½"	½"	
ANSI B16.5, Class 600 (Class 300)		½"	½"	
Dairy screwed connection (PN 16/25/40) ³⁾				
DIN 11851		DN 10	DN 15	
ISO 2853/BS 4825 part 4 (SS3351)		25 mm	25 mm	
Dairy clamp connection (PN 16) ³⁾				
ISO 2852/BS 4825 part 3 (SMS3016)		25 mm	25 mm	
Thread				
ISO 228/1, PN 100	G1¼" female	G1¼" male	G1½" male	
ANSI/ASME B1.20.1, PN 100	¼" NPT female	¼" NPT male	½" NPT male	
Cable connection	Multiple plug connection to sensor 5 x 2 x 0.35 mm ² twisted and screened in pairs, ext. Ø 12 mm			
Ex-version				
ATEX, EAC Ex, c-UL-us		Zone 0: Ex ia IIC T3...T6 Ga		
UL (c-UL-us)		Class I, Div. 1: Grp. A, B, C, D		
Weight approx.	kg (lb)	4 (8.8)	8 (17.6)	12 (26.5)

¹⁾ Max. at 20 °C (68 °F), DIN 2413, DIN 17457²⁾ Other connections to order, see "Selection and Ordering data"³⁾ Material, AISI 316/1.4401 or corresponding

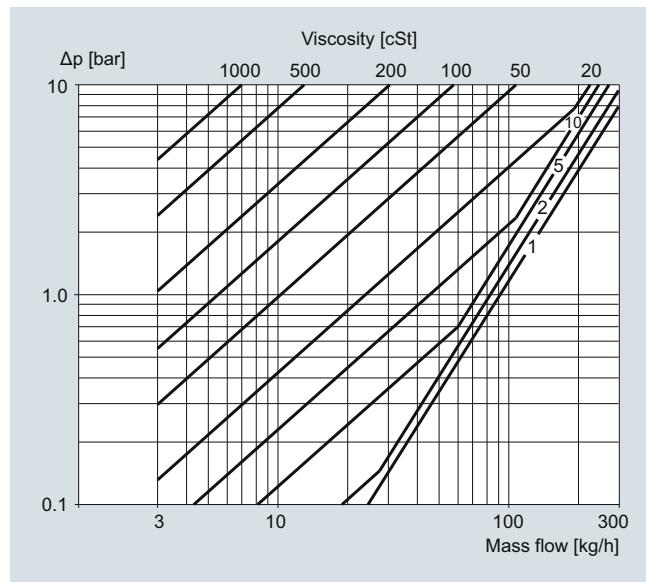
For accuracy specification see "System information SITRANS F C".

Flow Measurement

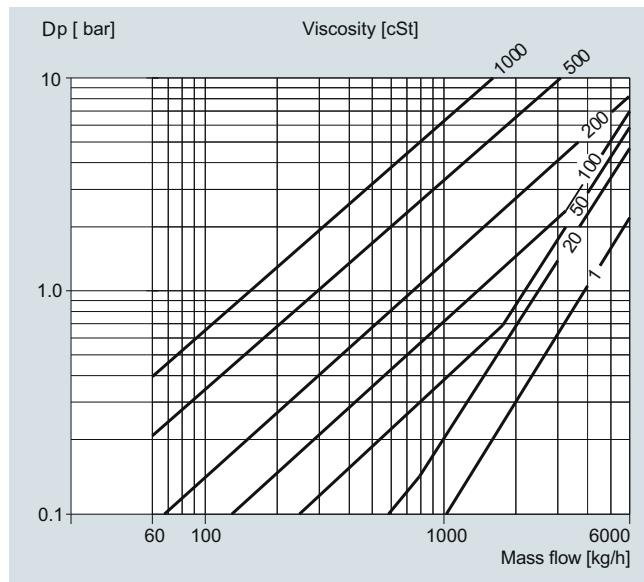
SITRANS FC

SITRANS FC sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter

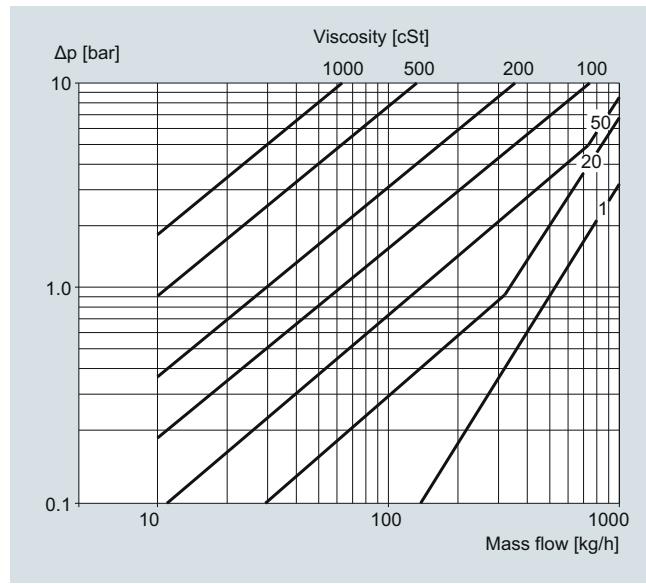
Pressure drop



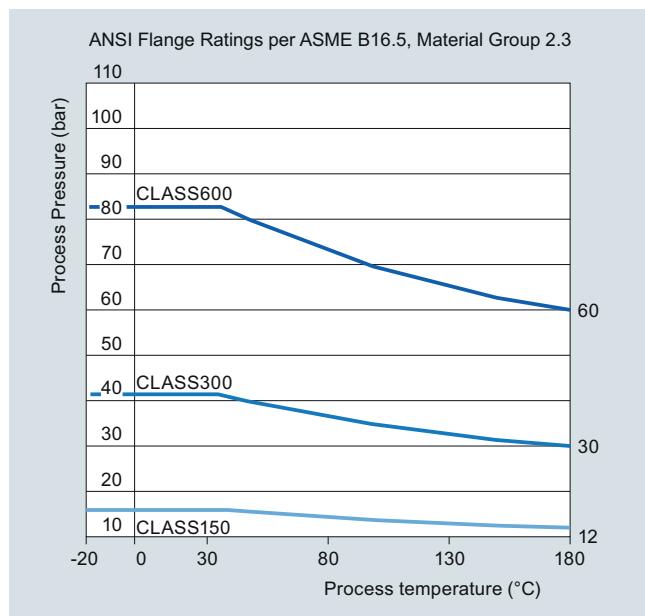
MASS 2100 DI 3 (1/8"), pressure drop for density = 1000 kg/m³



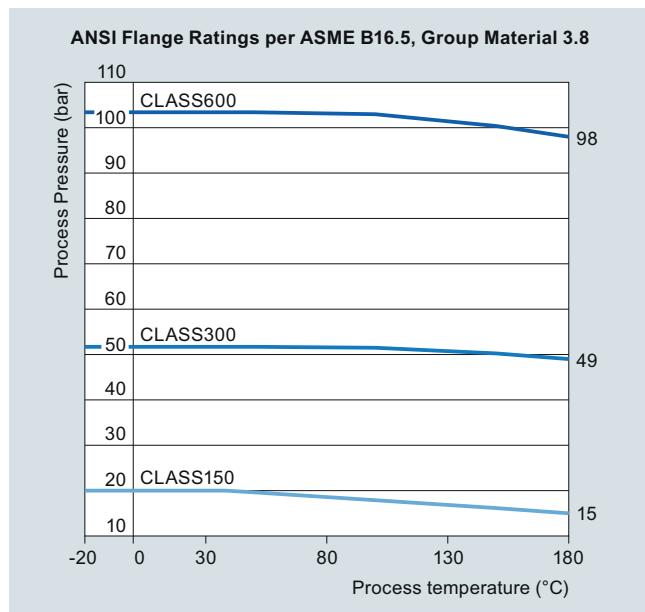
MASS 2100 DI 15 (1/2"), pressure drop for density = 1000 kg/m³



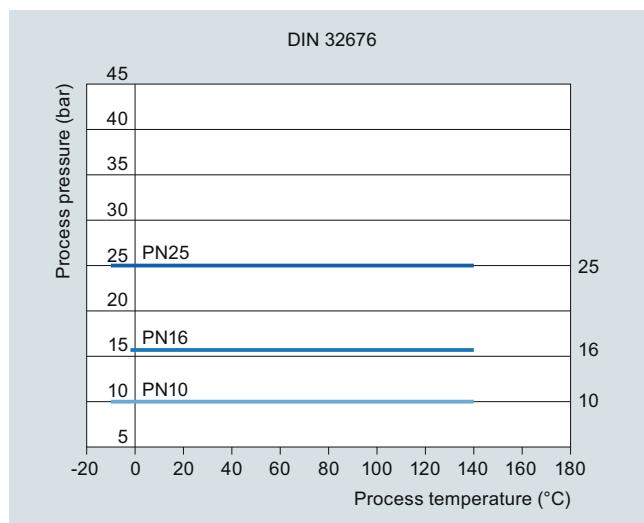
MASS 2100 DI 6 (1/4"), pressure drop for density = 1000 kg/m³

SITRANS FC sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter
Pressure/temperature curves


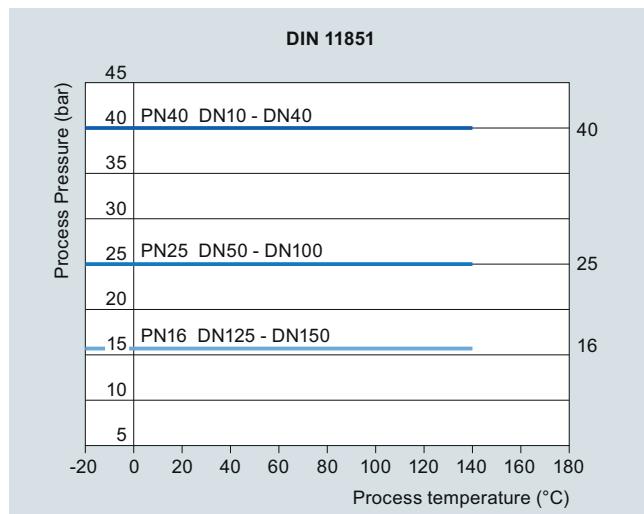
ASME flanges B16.5 stainless steel



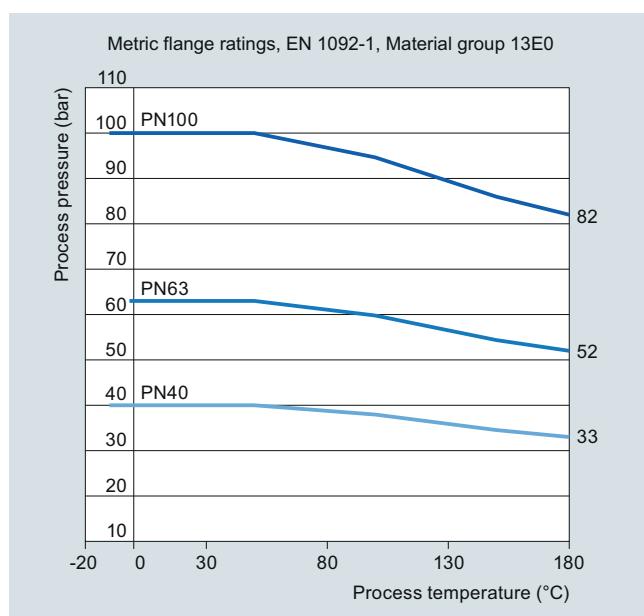
ASME flanges B16.5 Hastelloy C22/2.4602



DIN 32676 flanges stainless steel (PN 10 ... PN 25)



DIN 11851 flanges stainless steel (PN 25 ... PN 40)

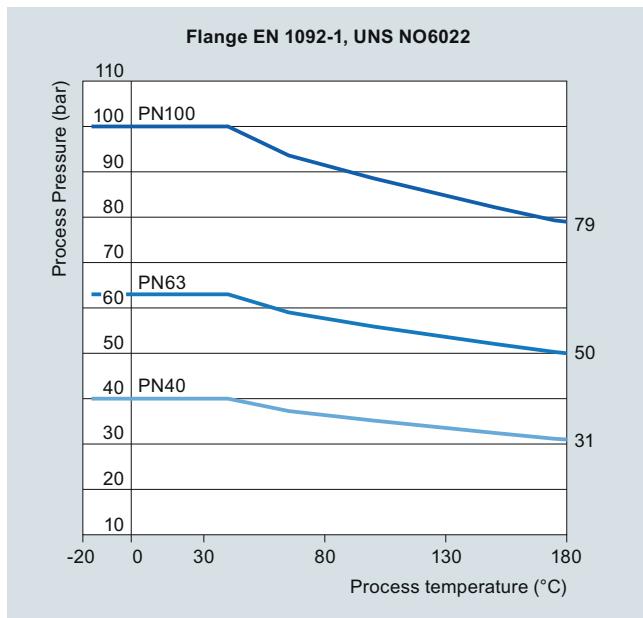


Flow Measurement

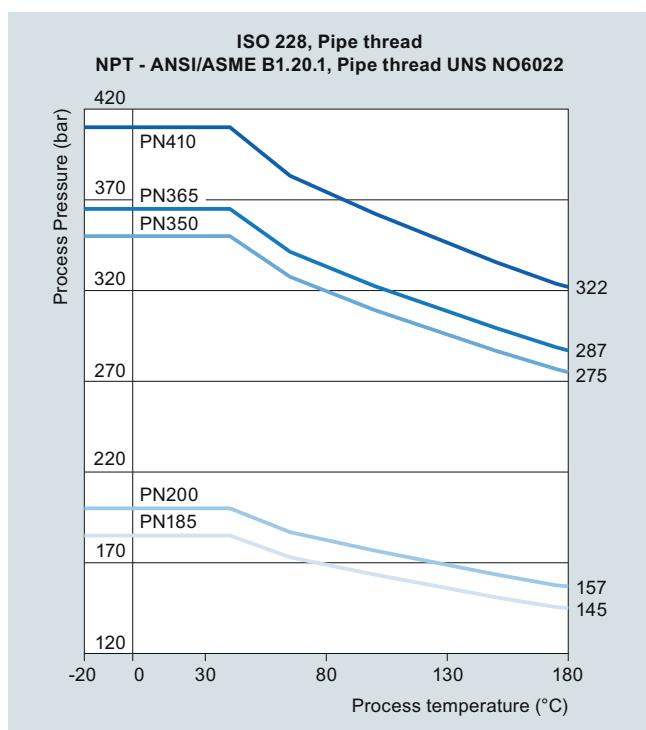
SITRANS F C

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter

EN 1092 flanges stainless steel (PN 40 ... PN 100)

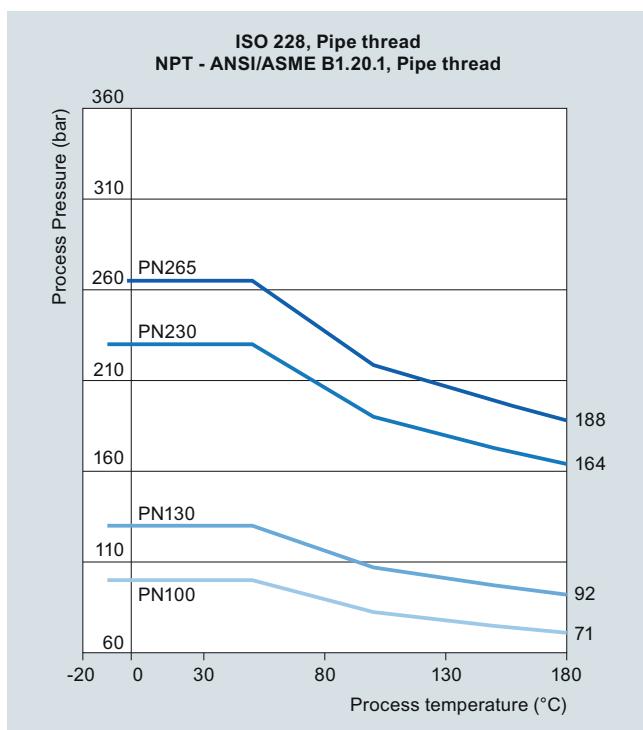


EN 1092 flanges Hastelloy C22/2.4602 (PN 40 ... PN 100)

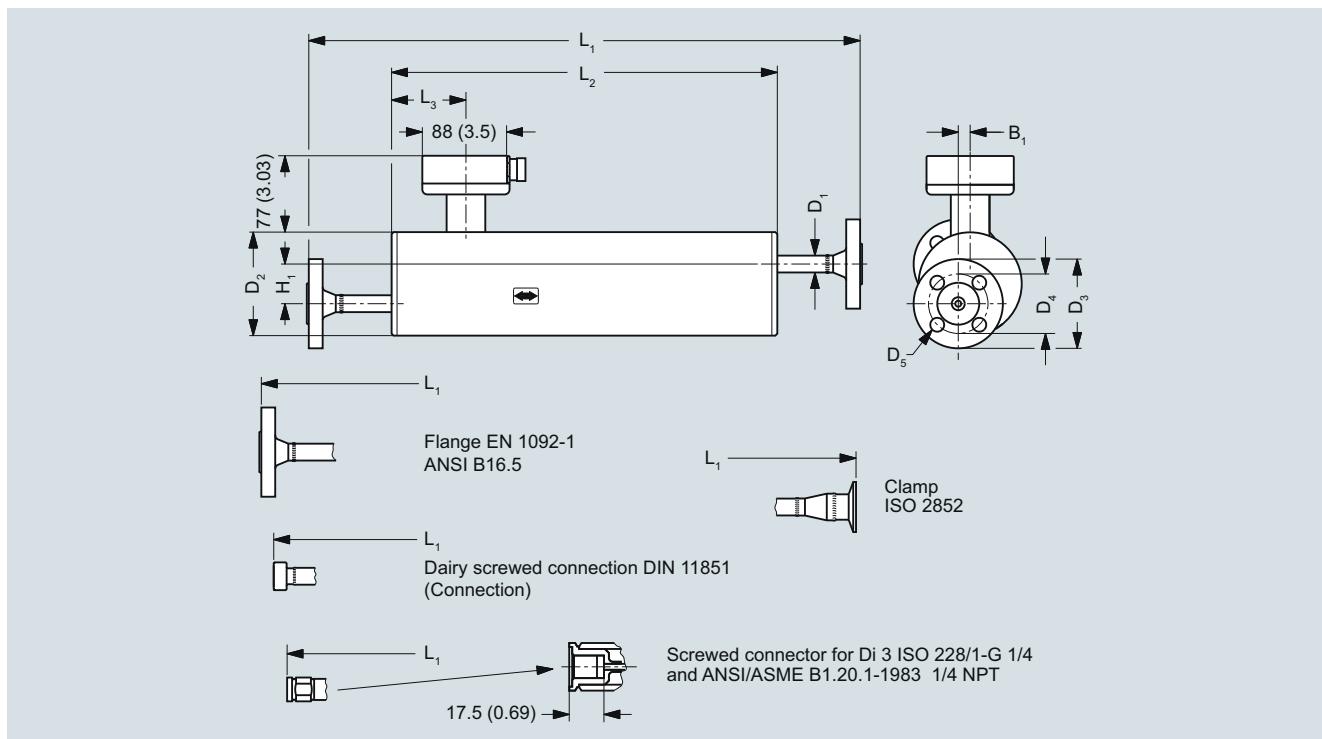


ISO 218 and NPT pipe thread stainless steel (PN 185 ... PN 410)

For further information on the PED standard and requirements, see page 10/15.



ISO 228 and NPT pipe thread stainless steel (PN 100 ... PN 265)

SITRANS FC sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter
Dimensional drawings
MASS 2100 sensor for analog cable connection


Dimension in mm (inch)

For not listed variants please contact product support

Sensor size	Connections			L1 mm	L2 mm	L3 mm	H1 mm	B1 mm	D1 mm	D2 mm	D3 mm	D4 mm	D5 mm
DI (inch)	Type	Pressure rating	Size										
(1/8)	Pipe thread ISO 228/1 - G1/4	PN 100	1/4"	400	280	75.5	60	0	21.3	104	-	-	-
	Pipe thread ANSI/ASME B 1.20.1 - 1/4" NPT	PN 100	1/4"	400	280	75.5	60	0	21.3	104	-	-	-
(1/4)	Flange EN 1092-1	PN 100	DN 10	580	390	62.0	40	12	17.0	104	100	70.0	14.0
	Flange EN 1092-1	PN 40	DN 10	560	390	62.0	40	12	17.0	104	90.0	60.0	14.0
	Flange ANSI B16.5	Class 150	1/2"	624	390	62.0	40	12	17.0	104	88.9	60.5	15.7
	Flange ANSI B16.5	Class 600	1/2"	608	390	62.0	40	12	17.0	104	95.3	66.5	15.7
	Screwed connection DIN 11851	PN 40	DN 10	532	390	62.0	40	12	17.0	104	-	-	-
	Clamp ISO 2852	PN 16	25 mm	570	390	62.0	40	12	17.0	104	-	-	-
(1/2)	Flange EN 1092-1	PN 100	DN 15	634	444	75.5	44	20	21.3	129	105	75.0	14.0
	Flange EN 1092-1	PN 40	DN 15	620	444	75.5	44	20	21.3	129	95.0	65.0	14.0
	Flange ANSI B16.5	Class 150	1/2"	639	444	75.5	44	20	21.3	129	88.9	60.5	15.7
	Flange ANSI B16.5	Class 600	1/2"	660	444	75.5	44	20	21.3	129	95.3	66.5	15.7
	Screwed connection DIN 11851	PN 40	DN 15	586	444	75.5	44	20	21.3	129	-	-	-
	Clamp ISO 2852	PN 16	25 mm	624	444	75.5	44	20	21.3	129	-	-	-

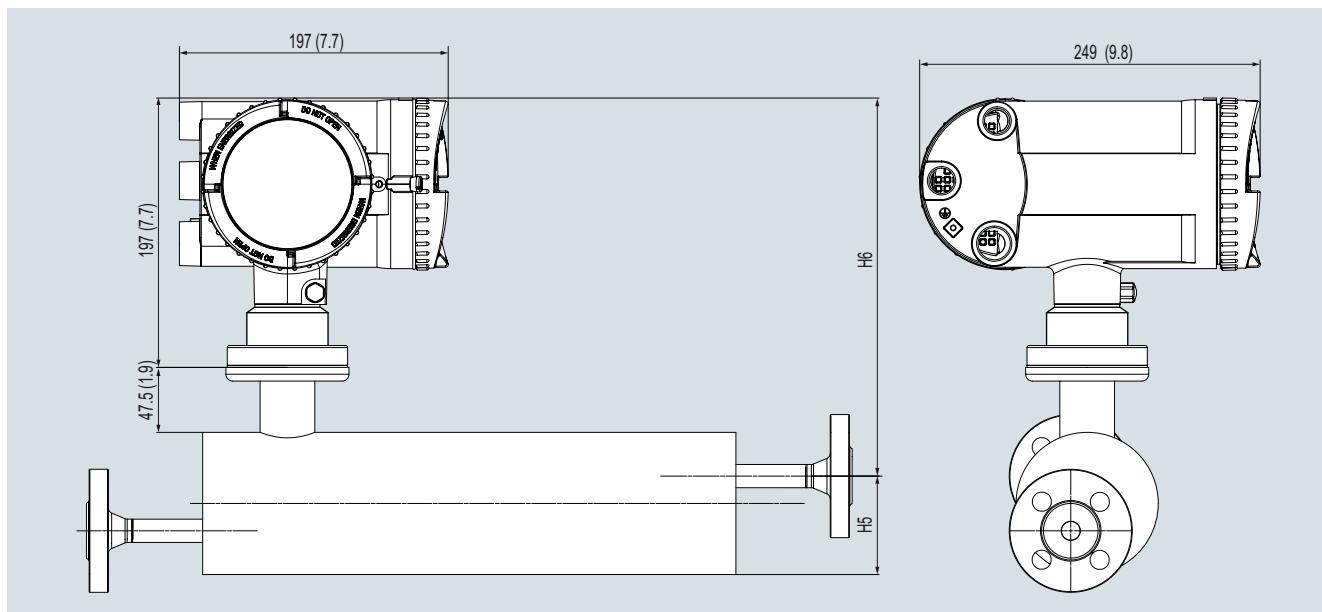
Flow Measurement

SITRANS F C

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter

For not listed variants please contact product support.

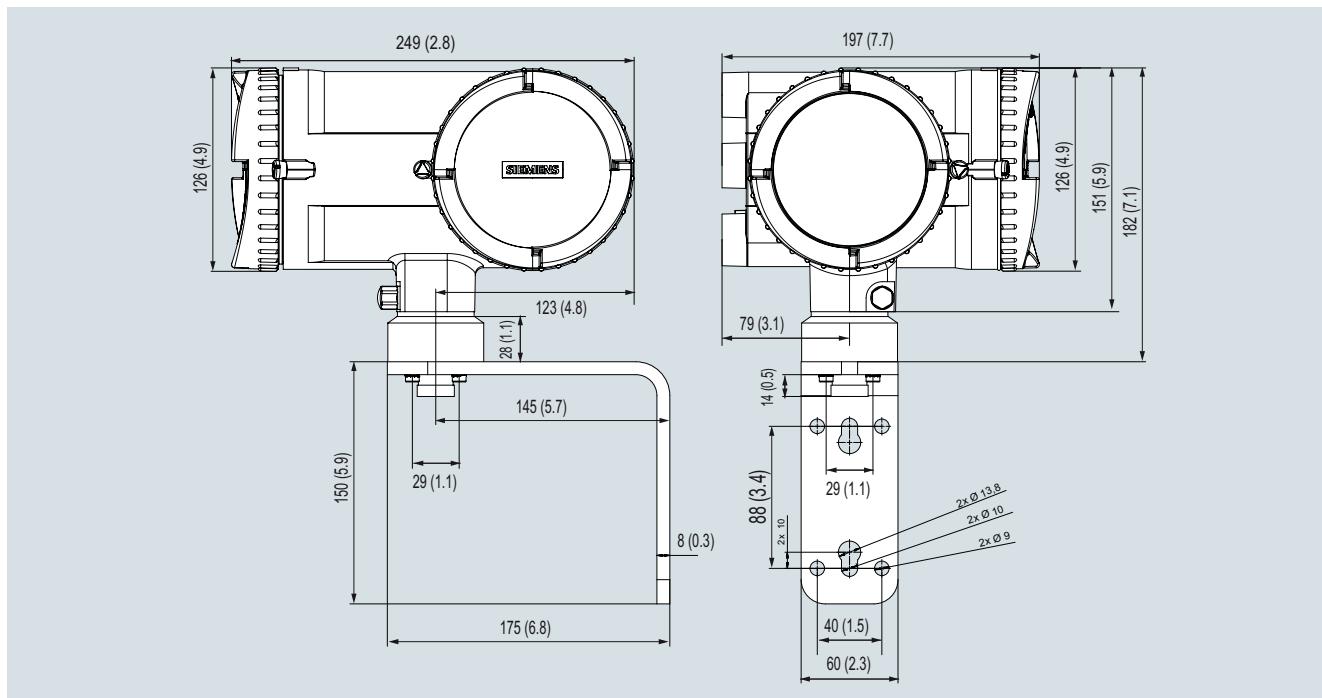
Sensor size	Connections			L1	L2	L3	H1	B1	D1	D2	D3	D4	D5
	DI (inch)	Type	Pressure rating	Size	inch								
DI 3 (1/8)	Pipe thread ISO 228/1 - G1/4	PN 100	1/4"	15.75	11.02	2.97	2.36	0	0.84	4.09	-	-	-
	Pipe thread ANSI/ASME B 1.20.1 - 1/4" NPT	PN 100	1/4"	15.75	11.02	2.97	2.36	0	0.84	4.09	-	-	-
DI 6 (1/4)	Flange EN 1092-1	PN 100	DN 10	22.83	15.35	2.44	1.57	0.47	0.67	4.09	3.94	2.76	0.55
	Flange EN 1092-1	PN 40	DN 10	22.05	15.35	2.44	1.57	0.47	0.67	4.09	3.54	2.36	0.55
	Flange ANSI B16.5	Class 150	1/2"	24.57	15.35	2.44	1.57	0.47	0.67	4.09	3.5	2.38	0.62
	Flange ANSI B16.5	Class 600	1/2"	23.94	15.35	2.44	1.57	0.47	0.67	4.09	3.75	2.62	0.62
	Screwed connection DIN 11851	PN 40	DN 10	20.94	15.35	2.44	1.57	0.47	0.67	4.09	-	-	-
	Clamp ISO 2852	PN 16	25 mm	22.44	15.35	2.44	1.57	0.47	0.67	4.09	-	-	-
DI 15 (1/2)	Flange EN 1092-1	PN 100	DN 15	24.96	17.48	2.97	1.73	0.79	0.84	5.08	2.95	4.13	0.55
	Flange EN 1092-1	PN 40	DN 15	24.41	17.48	2.97	1.73	0.79	0.84	5.08	3.74	2.56	0.55
	Flange ANSI B16.5	Class 150	1/2"	25.16	17.48	2.97	1.73	0.79	0.84	5.08	3.5	2.38	0.62
	Flange ANSI B16.5	Class 600	1/2"	25.98	17.48	2.97	1.73	0.79	0.84	5.08	3.75	2.62	0.62
	Screwed connection DIN 11851	PN 40	DN 15	23.07	17.48	2.97	1.73	0.79	0.84	5.08	-	-	-
	Clamp ISO 2852	PN 16	25 mm	24.57	17.48	2.97	1.73	0.79	0.84	5.08	-	-	-

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter
Compact with FCT030


Dimensions in mm (inch)

MASS 2100 with FCT030 transmitter compact

Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75.5 (2.97)	82 (3.23)	267 (10.51)	349 (13.74)
6 (1/4)	62 (2.44)	72 (2.83)	277 (10.91)	349 (13.74)
15 (1/2)	75.5 (2.97)	86.5 (3.41)	287 (11.3)	373.5 (14.71)

Transmitter FCT030 remote field mount for M20 analog cable connection


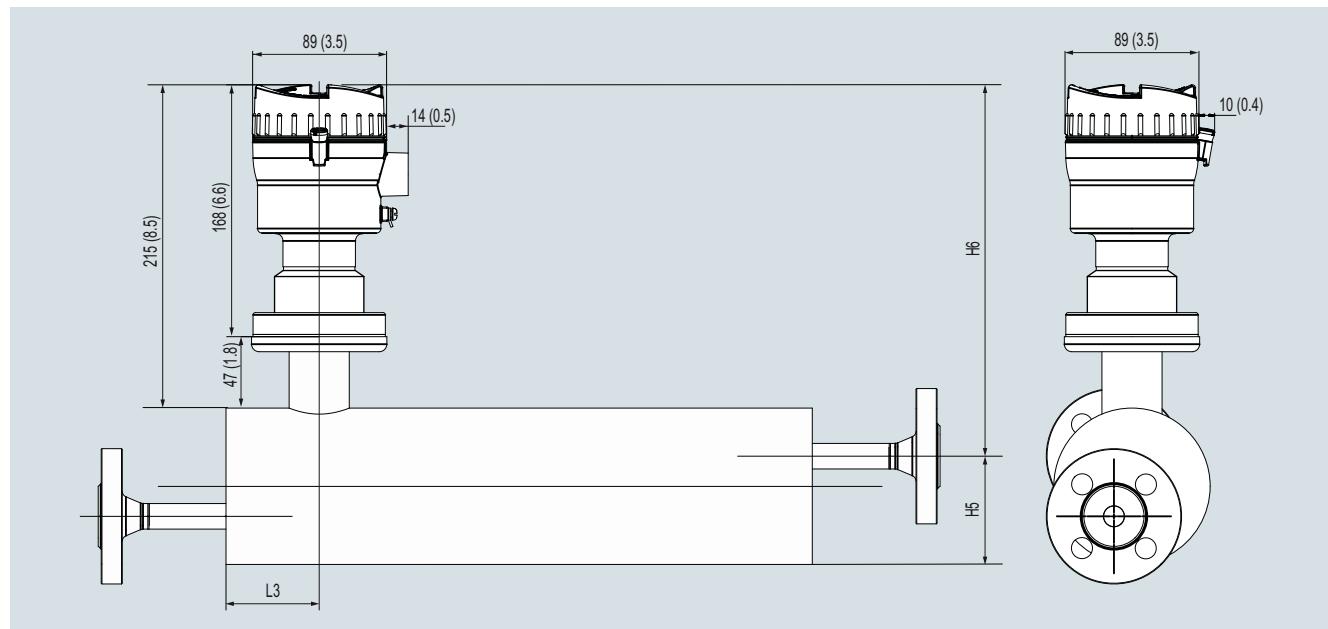
Dimensions in mm (inch)

Flow Measurement

SITRANS F C

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter

Compact with FCT010

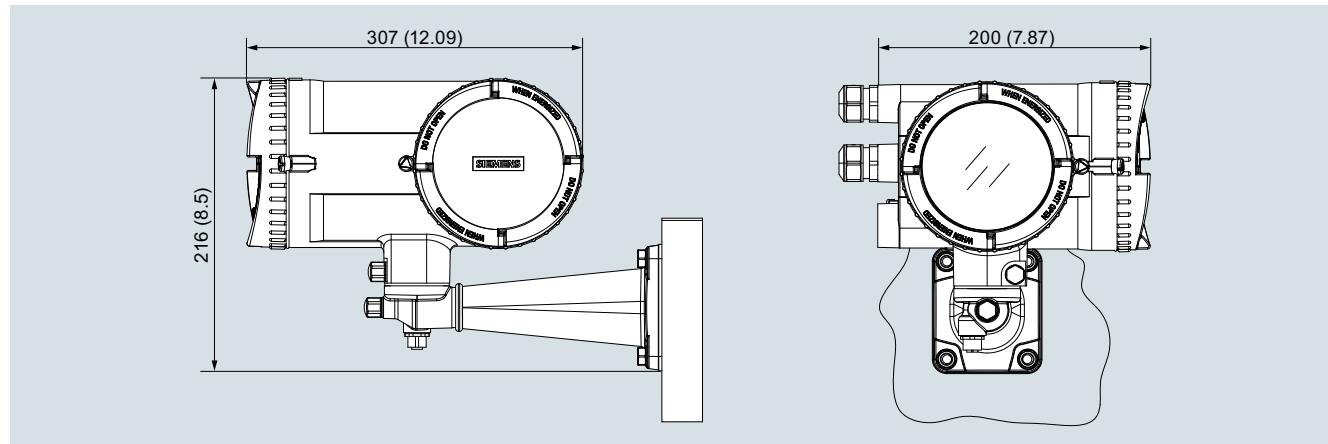


Dimensions in mm (inch)

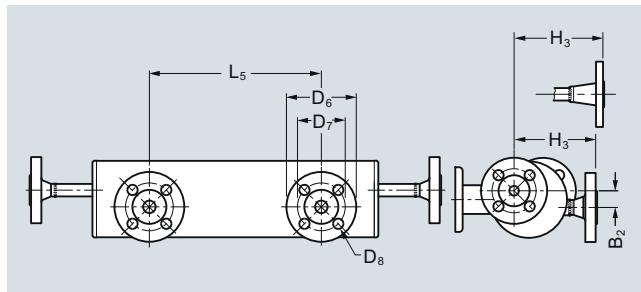
MASS 2100 with FCT010 transmitter compact

Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75.5 (2.97)	82 (3.23)	237 (9.33)	319 (12.56)
6 (1/4)	62 (2.44)	72 (2.83)	247 (9.72)	319 (12.56)
15 (1/2)	75.5 (2.97)	86.5 (3.41)	257 (10.11)	343.5 (13.52)

Transmitter FCT030 remote field mount for M12 digital cable connection



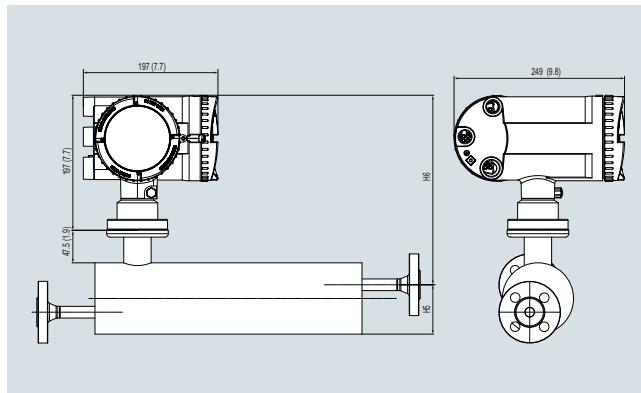
Dimensions in mm (inch)

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitterMASS 2100 sensor with "heating jacket"

Dimensions in mm (inch)

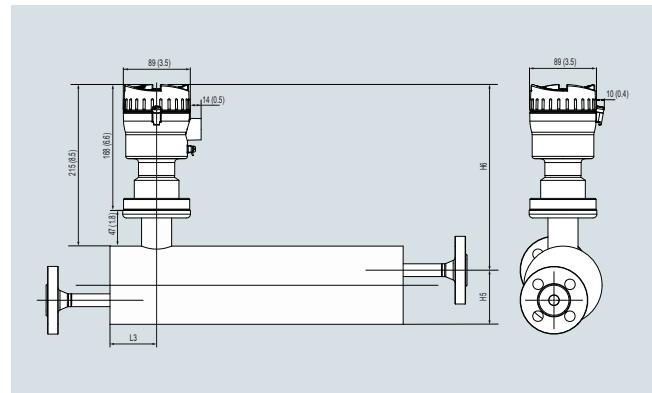
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Sensor size [Sensor size [DI (inch)]]		Connections heated		L5	H3	B2	D6	D7	D8
DI (inch)	Type	Pressure rating	Size	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
DI 3 (1/8)	EN 1092-1	PN 40	DN 15	234 (9.21)	122 (4.8)	22 (0.87)	95 (3.74)	65.0 (2.56)	14.0 (0.55)
	ANSI B16.5	Class 150	1/2"	234 (9.21)	131.6 (5.18)	22 (0.87)	88.9 (3.5)	60.5 (2.38)	15.7 (0.62)
DI 6 (1/4)	EN 1092-1	PN 40	DN 15	234 (9.21)	112 (4.41)	22.7 (0.89)	95 (3.74)	65.0 (2.56)	14.0 (0.55)
	ANSI B16.5	Class 150	1/2"	234 (9.21)	121.6 (4.79)	22.7 (0.89)	88.9 (3.5)	60.5 (2.38)	15.7 (0.62)
DI 15 (1/2)	EN 1092-1	PN 40	DN 15	234 (9.21)	126.5 (4.98)	31.5 (1.24)	95 (3.74)	65.0 (2.56)	14.0 (0.55)
	ANSI B16.5	Class 150	1/2"	234 (9.21)	136.1 (5.36)	31.5 (1.24)	88.9 (3.5)	60.5 (2.38)	15.7 (0.62)

MASS 2100 and FCT030 compact version

MASS 2100 and FCT030 compact version, dimensions in mm (inch)

Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75.5 (2.97)	82 (3.23)	267 (10.51)	349 (13.74)
6 (1/4)	62 (2.44)	72 (2.83)	277 (10.91)	349 (13.74)
15 (1/2)	75.5 (2.97)	86.5 (3.41)	287 (11.30)	373.5 (14.70)

MASS 2100 and FCT010 compact version

MASS 2100 and FCT010 compact version, dimensions in mm (inch)

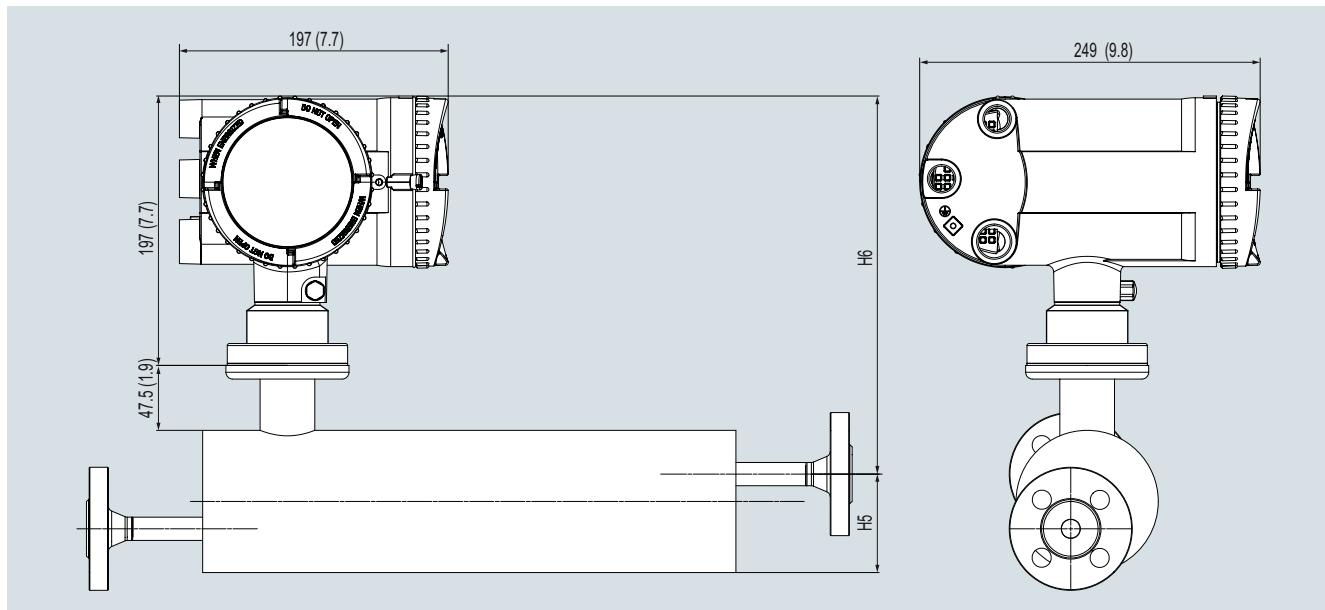
Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75 (2.95)	82 (3.23)	237 (9.33)	319 (12.56)
6 (1/4)	62 (2.44)	72 (2.83)	247 (9.72)	319 (12.56)
15 (1/2)	75 (2.95)	87 (3.43)	257 (10.11)	343.5 (13.52)

Flow Measurement

SITRANS F C

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS FCT010, FCT030 and SIFLOW FC070 transmitter

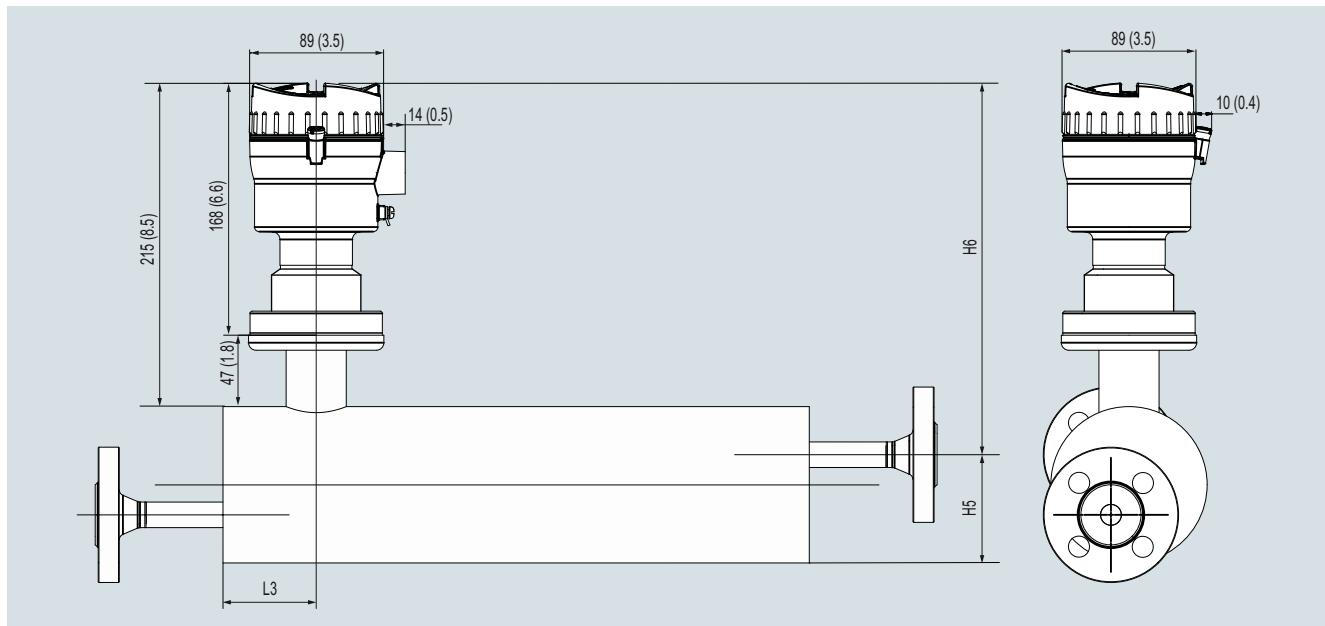
MASS 2100 and FCT030 compact version



MASS 2100 and FCT030 compact version, dimensions in mm (inch)

Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75.5 (2.97)	82 (3.23)	267 (10.51)	349 (13.74)
6 (1/4)	62 (2.44)	72 (2.83)	277 (10.91)	349 (13.74)
15 (1/2)	75.5 (2.97)	86.5 (3.41)	287 (11.30)	373.5 (14.70)

MASS 2100 and FCT010 compact version



MASS 2100 and FCT010 compact version, dimensions in mm (inch)

Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75 (2.95)	82 (3.23)	237 (9.33)	319 (12.56)
6 (1/4)	62 (2.44)	72 (2.83)	247 (9.72)	319 (12.56)
15 (1/2)	75 (2.95)	87 (3.43)	257 (10.11)	343.5 (13.52)

Flow Measurement

SITRANS FC C

SITRANS FC sensors MASS 2100/FC300 with FCT010, FCT030 and SIFLOW FC070 transmitters (Low flow program)

Selection and Ordering data		Article No.	Ord. code	Selection and Ordering data	Article No.	Ord. code
SITRANS FC sensors MASS 2100/FC300 with FCT010 transmitter		7 ME 4 8 1 1 -		SITRANS FC sensors MASS 2100/FC300 with FCT010 transmitter	7 ME 4 8 1 1 -	
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.						
Sensor type and connector size				Tube material (wetted) and max. operational temperature		
MASS 2100 DI 1.5, 1/4"	1 G			AISI 316L/EN 1.4435, Max 115 °C	1	
MASS 2100 DI 3, 1/4"	3 A			AISI 316L/EN 1.4435, Max 125 °C	2	
MASS 2100 DI 3, 1/4" Heated w. DIN	3 B			AISI 316L/EN 1.4435, Max 180 °C	3	
MASS 2100 DI 3, 1/4" Heated w. ANSI	3 C			Hastelloy C22/UNS N06022/EN 2.4602, Max. 115 °C	5	
FC300 DN 4, 1/4"	4 A			Hastelloy C22/UNS N06022/EN 2.4602, Max. 125 °C	6	
MASS 2100 DI 6, 1/4"	6 A			Hastelloy C22/UNS N06022/EN 2.4602, Max. 180 °C	7	
MASS 2100 DI 6, 1/4" Heated w. EN	6 B					
MASS 2100 DI 6, 1/4" Heated w. ANSI	6 C					
MASS 2100 DI 6, DN 10	6 D					
MASS 2100 DI 6, DN 10 Heated w. EN	6 E			Calibration		
MASS 2100 DI 6, DN 10 Heated w. ANSI	6 F			Mass flow calibration	1	
MASS 2100 DI 6, DN 15 (1/2")	6 G			Mass flow calibration and density calibration	4	
MASS 2100 DI 6, DN 15 (1/2") Heated w. EN	6 H					
MASS 2100 DI 6, DN 15 (1/2") Heated w. ANSI	6 J			Mounting style, Transmitter Housing and Material		
MASS 2100 DI 6, DN 20 (3/4")	6 K			Compact mounted, IP67, Aluminium transmitter housing (DI 3, DI 6 and DI 15 only)	D	
MASS 2100 DI 6, DN 20 (3/4") Heated w. EN	6 L			Remote mounted, IP67, Aluminium transmitter housing, analog cable connection with M20 connectors	Z	P 0 D
MASS 2100 DI 6, DN 20 (3/4") Heated w. ANSI	6 M					
MASS 2100 DI 6, DN 25 (1")	6 N			Ex approvals		
MASS 2100 DI 6, DN 25 (1") Heated w. EN	6 P			Non-Ex	A	
MASS 2100 DI 6, DN 25 (1") Heated w. ANSI	6 Q			ATEX Zone 1	C	
MASS 2100 DI 15, DN 15 (1/2")	7 A			IECEx Zone 1	F	
MASS 2100 DI 15, DN 15 (1/2") Heated w. EN	7 B			USA (FM, CSA, UL), Zone 1/Div1	H	
MASS 2100 DI 15, DN 15 (1/2") Heated w. ANSI	7 C			Canada (CSA, UL), Zone 1/Div1	M	
MASS 2100 DI 15, DN 20 (3/4")	7 D					
MASS 2100 DI 15, DN 20 (3/4") Heated w. EN	7 E			Local User Interface		
MASS 2100 DI 15, DN 20 (3/4") Heated w. ANSI	7 F			Blind	1	
MASS 2100 DI 15, DN 25 (1")	7 G					
MASS 2100 DI 15, DN 25 (1") Heated w. EN	7 H					
MASS 2100 DI 15, DN 25 (1") Heated w. ANSI	7 J					
Process connection/Pressure						
No connections (spare part transmitter)	A 0					
EN1092-1 B1, PN40	A 1					
EN1092-1 B1, PN100	A 3					
ASME B16.5, RF, Class 150	D 1					
ASME B16.5, RF, Class 600	D 3					
DIN 11851 Screwed connection	F 1					
ISO2852 Hyg. Clamped	J 1					
ISO2853 Hyg. Screwed	J 5					
ISO 228-1 Pipe thread, PN 100	C 1					
ISO 228-1 Pipe thread, PN 130	C 2					
ISO 228-1 Pipe thread, PN 200	C 3					
ISO 228-1 Pipe thread, PN 230	C 4					
ISO 228-1 Pipe thread, PN 265	C 5					
ISO 228-1 Pipe thread, PN 350	C 6					
ISO 228-1 Pipe thread, PN 365	C 7					
ISO 228-1 Pipe thread, PN 410	C 8					
NPT ASME B 1.20.1 Pipe thread, PN 100	N 1					
NPT ASME B 1.20.1 Pipe thread, PN 130	N 2					
NPT ASME B 1.20.1 Pipe thread, PN 200	N 3					
NPT ASME B 1.20.1 Pipe thread, PN 230	N 4					
NPT ASME B 1.20.1 Pipe thread, PN 265	N 5					
NPT ASME B 1.20.1 Pipe thread, PN 350	N 6					
NPT ASME B 1.20.1 Pipe thread, PN 365	N 7					
NPT ASME B 1.20.1 Pipe thread, PN 410	N 8					

Flow Measurement

SITRANS F C

SITRANS F C sensors MASS 2100/FC300 with FCT010, FCT030 and SIFLOW FC070 transmitters (Low flow program)

Selection and Ordering data	Order code	Selection and Ordering data	Order code
Futher designs Please add “-Z“ to Article No. and specify Order code(s).		Additional data Please add “-Z“ to Article No. and specify Order code(s) and plain text.	
Cable glands		Tag name	
None (mechanical sensor)	A00	Tag name plate, stainless steel	Y17
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		
Integral M12 socket	A20		
SW functions & CT approvals			
Standard	B11		
I/O configuration Ch1			
Modbus RTU RS 485	E14		
I/O configuration Ch2, Ch3 and Ch4			
None	F00		
Certificates			
Press test certificate CRN	C01		
Press test certificate PED	C02		
Material certificate EN 10204-3.1	C12		
Welding inspection report	C13		
Factory certificate according to EN 10204 2.2	C14		
Factory certificate according to EN 10204 2.1	C15		
Cleaning for oil and grease/ASTM-A380	C50		
Cleaned according to PWIS	C51		
Sensor data storage			
Sensor with SensorFlash for FCT	S20		
Sensor with SensorProm for MASS 6000	S21		
Cable sensor-transmitter			
None	L50		
5 m, standard, M12 connectors	L51		
5 m, standard, without connectors	L52		
10 m, standard, M12 connectors	L55		
10 m, standard, without connectors	L56		
25 m, standard, M12 connectors	L59		
25 m, standard, without connectors	L60		
50 m, standard, M12 connectors	L63		
50 m, standard, without connectors	L64		
75 m, standard, M12 connectors	L67		
75 m, standard, without connectors	L68		
2 m cable, analog, with two M20 connectors	L85		
5 m cable, analog, with two M20 connectors	L86		
10 m cable, analog, with two M20 connectors	L87		
15 m cable, analog, with two M20 connectors	L88		

Flow Measurement

SITRANS FC C

SITRANS FC sensors MASS 2100/FC300 with FCT010, FCT030 and SIFLOW FC070 transmitters (Low flow program)

Selection and Ordering data		Article No.	Ord. code	Selection and Ordering data	Article No.	Ord. code
SITRANS FC sensors MASS 2100/FC300 with FCT030 transmitter		7 ME 4 8 1 3 -		SITRANS FC sensors MASS 2100/FC300 with FCT030 transmitter	7 ME 4 8 1 3 -	
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.						
Sensor type and connector size				Tube material (wetted) and max. operational temperature		
MASS 2100 DI 1.5, 1/4"	1 G			AISI 316L/EN 1.4435, Max 115 °C	1	
MASS 2100 DI 3, 1/4"	3 A			AISI 316L/EN 1.4435, Max 125 °C	2	
MASS 2100 DI 3, 1/4" Heated w. DIN	3 B			AISI 316L/EN 1.4435, Max 180 °C	3	
MASS 2100 DI 3, 1/4" Heated w. ANSI	3 C			Hastelloy C22/UNS N06022/EN 2.4602, Max. 115 °C	5	
FC300 DN 4, 1/4"	4 A			Hastelloy C22/UNS N06022/EN 2.4602, Max. 125 °C	6	
MASS 2100 DI 6, 1/4"	6 A			Hastelloy C22/UNS N06022/EN 2.4602, Max. 180 °C	7	
MASS 2100 DI 6, 1/4" Heated w. EN	6 B					
MASS 2100 DI 6, 1/4" Heated w. ANSI	6 C					
MASS 2100 DI 6, DN 10	6 D					
MASS 2100 DI 6, DN 10 Heated w. EN	6 E			Calibration		
MASS 2100 DI 6, DN 10 Heated w. ANSI	6 F			Mass flow calibration	1	
MASS 2100 DI 6, DN 15 (1/2")	6 G			Mass flow calibration and density calibration	4	
MASS 2100 DI 6, DN 15 (1/2") Heated w. EN	6 H			Standard fraction	8	
MASS 2100 DI 6, DN 15 (1/2") Heated w. ANSI	6 J					
MASS 2100 DI 6, DN 20 (3/4")	6 K			Mounting style, Transmitter Housing and Material		
MASS 2100 DI 6, DN 20 (3/4") Heated w. EN	6 L			Compact mounted, IP67, Aluminium transmitter housing (DI 3, DI 6 and DI 15 only)	D	
MASS 2100 DI 6, DN 20 (3/4") Heated w. ANSI	6 M			Remote field mounted, IP67, Aluminium housing, M12 socket for digital cable connection (DI 3, DI 6 and DI 15 only)	G	
MASS 2100 DI 6, DN 25 (1")	6 N			Remote field mount, IP67, Aluminium housing, terminal box for digital cable connection (DI 3, DI 6 and DI 15 only)	K	
MASS 2100 DI 6, DN 25 (1") Heated w. EN	6 P			Wall mount aluminum transmitter housing, M12 socket for digital cable connection (DI 3, DI 6 and DI 15 only)	U	
MASS 2100 DI 6, DN 25 (1") Heated w. ANSI	6 Q			Remote field mount, IP67, Aluminium transmitter housing, analog cable connection with M20 connectors	Z	P 0 D
MASS 2100 DI 15, DN 15 (1/2")	7 A			Remote wall mount, IP67, aluminum transmitter housing, analog cable connection with M20 connectors	Z	P 0 E
MASS 2100 DI 15, DN 15 (1/2") Heated w. EN	7 B					
MASS 2100 DI 15, DN 15 (1/2") Heated w. ANSI	7 C					
MASS 2100 DI 15, DN 20 (3/4")	7 D					
MASS 2100 DI 15, DN 20 (3/4") Heated w. EN	7 E					
MASS 2100 DI 15, DN 20 (3/4") Heated w. ANSI	7 F					
MASS 2100 DI 15, DN 25 (1")	7 G			Ex approvals		
MASS 2100 DI 15, DN 25 (1") Heated w. EN	7 H			Non-Ex	A	
MASS 2100 DI 15, DN 25 (1") Heated w. ANSI	7 J			ATEX Zone 1	C	
				IECEx Zone 1	F	
				USA (FM, CSA, UL), Zone 1/Div1	H	
				Canada (CSA, UL), Zone 1/Div1	M	
Process connection/Pressure						
No connections (spare part transmitter)	A 0			Local User Interface		
EN1092-1 B1, PN40	A 1			Blind	1	
EN1092-1 B1, PN100	A 3			Graphical, 240 x 160 pixels, glass lid	3	
ASME B16.5, RF, Class 150	D 1					
ASME B16.5, RF, Class 600	D 3					
DIN 11851 Screwed connection	F 1					
ISO2852 Hyg. Clamped	J 1					
ISO2853 Hyg. Screwed	J 5					
ISO 228-1 Pipe thread, PN 100	C 1					
ISO 228-1 Pipe thread, PN 130	C 2					
ISO 228-1 Pipe thread, PN 200	C 3					
ISO 228-1 Pipe thread, PN 230	C 4					
ISO 228-1 Pipe thread, PN 265	C 5					
ISO 228-1 Pipe thread, PN 350	C 6					
ISO 228-1 Pipe thread, PN 365	C 7					
ISO 228-1 Pipe thread, PN 410	C 8					
NPT ASME B 1.20.1 Pipe thread, PN 100	N 1					
NPT ASME B 1.20.1 Pipe thread, PN 130	N 2					
NPT ASME B 1.20.1 Pipe thread, PN 200	N 3					
NPT ASME B 1.20.1 Pipe thread, PN 230	N 4					
NPT ASME B 1.20.1 Pipe thread, PN 265	N 5					
NPT ASME B 1.20.1 Pipe thread, PN 350	N 6					
NPT ASME B 1.20.1 Pipe thread, PN 365	N 7					
NPT ASME B 1.20.1 Pipe thread, PN 410	N 8					

Flow Measurement

SITRANS F C

SITRANS F C sensors MASS 2100/FC300 with FCT010, FCT030 and SIFLOW FC070 transmitters (Low flow program)

Selection and Ordering data	Order code	Selection and Ordering data	Order code
Futher designs Please add “-Z“ to Article No. and specify Order code(s).		Sensor data storage Sensor with SensorFlash for FCT Sensor with SensorProm for MASS 6000 (in preparation)	S20 S21
Cable glands None (mechanical sensor) 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	A00 A01 A02 A05 A06 A11 A12 A15 A16 A20	SD-Card accessibility via USB (not allowed in USA by Patent) Mass storage enabled	S30
SW functions & CT approvals Standard	B11	Cable sensor-transmitter None 5 m, standard, M12 connectors 5 m, standard, without connectors 10 m, standard, M12 connectors 10 m, standard, without connectors 25 m, standard, M12 connectors 25 m, standard, without connectors 50 m, standard, M12 connectors 50 m, standard, without connectors 75 m, standard, M12 connectors 75 m, standard, without connectors	L50 L51 L52 L55 L56 L59 L60 L63 L64 L67 L68
I/O configuration Ch1 None (replacement sensor) 4 ... 20 mA, HART, active/passive output (non-Ex) 4 ... 20 mA, HART, active Ex 4 ... 20 mA, HART, passive Ex PROFIBUS PA (non-Ex) PROFIBUS DP Modbus RTU RS 485	E00 E02 E06 E07 E10 E11 E14	2 m cable, analog with two M20 connectors 5 m cable, analog with two M20 connectors 10 m cable, analog with two M20 connectors 15 m cable, analog with two M20 connectors	L85 L86 L87 L88
I/O configuration Ch2, Ch3 and Ch4 None Non Ex: Sig O, None, None Non Ex: Sig O, Sig I/O, None Non Ex: Sig O, Sig I/O, Sig I/O Non Ex: Sig O, Sig I/O, R Non Ex: Sig O, R, R Non Ex: Sig O, R, None Ex: pSig O, None, None Ex: pSig O, pSig I/O, None Ex: pSig O, pSig I/O, pSig I/O Ex: pSig O, pSig I/O, R Ex: pSig O, R, R Ex: pSig O, R, None Ex: aSig O, None, None Ex: aSig O, aSig I/O, None Ex: aSig O, aSig I/O, aSig I/O Ex: aSig O, aSig I/O, R Ex: aSig O, R, R Ex: aSig O, R, None	F00 F01 F02 F03 F04 F05 F06 F11 F12 F13 F14 F15 F16 F21 F22 F23 F24 F25 F26	Additional data Please add “-Z“ to Article No. and specify Order code(s) and plain text.	
Certificates Press test certificate CRN Press test certificate PED Material certificate EN 10204-3.1 Welding inspection report Factory certificate according to EN 10204 2.2 Factory certificate according to EN 10204 2.1 Cleaning for oil and grease/ASTM-A380 Cleaned according to PWIS	C01 C02 C12 C13 C14 C15 C50 C51	Tag name Tag name plate, stainless steel	Y17
		Extended calibration Multi-point high, (5 flows x 2 passes), 10 ... 100 % of Q_{nom}	Y61
		Multi-point high, (10 flows x 1 pass), 10 ... 100 % of Q_{nom}	Y63

Flow Measurement

SITRANS FC C

SITRANS FC sensors MASS 2100/FC300 with FCT010, FCT030 and SIFLOW FC070 transmitters (Low flow program)

Selection and Ordering data		Article No.	Ord. code	Selection and Ordering data	Article No.	Ord. code
SITRANS FC sensors MASS 2100/FC300 with SIFLOW FC070 transmitter¹⁾		7ME4818-		SITRANS FC sensors MASS 2100/FC300 with SIFLOW FC070 transmitter¹⁾	7ME4818-	
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.						
Sensor type and connector size				Tube material (wetted) and max. operational temperature		
MASS 2100 DI 1.5, 1/4"	1 G			AISI 316L/EN 1.4435, Max 115 °C	1	
MASS 2100 DI 3, 1/4"	3 A			AISI 316L/EN 1.4435, Max 125 °C	2	
MASS 2100 DI 3, 1/4" Heated w. DIN	3 B			AISI 316L/EN 1.4435, Max 180 °C	3	
MASS 2100 DI 3, 1/4" Heated w. ANSI	3 C			Hastelloy C22/UNS N06022/EN 2.4602, Max. 115 °C	5	
FC300 DN 4, 1/4"	4 A			Hastelloy C22/UNS N06022/EN 2.4602, Max. 125 °C	6	
MASS 2100 DI 6, 1/4"	6 A			Hastelloy C22/UNS N06022/EN 2.4602, Max. 180 °C	7	
MASS 2100 DI 6, 1/4" Heated w. EN	6 B					
MASS 2100 DI 6, 1/4" Heated w. ANSI	6 C					
MASS 2100 DI 6, DN 10	6 D					
MASS 2100 DI 6, DN 10 Heated w. EN	6 E					
MASS 2100 DI 6, DN 10 Heated w. ANSI	6 F					
MASS 2100 DI 6, DN 15 (1/2")	6 G					
MASS 2100 DI 6, DN 15 (1/2") Heated w. EN	6 H					
MASS 2100 DI 6, DN 15 (1/2") Heated w. ANSI	6 J					
MASS 2100 DI 6, DN 20 (3/4")	6 K					
MASS 2100 DI 6, DN 20 (3/4") Heated w. EN	6 L					
MASS 2100 DI 6, DN 20 (3/4") Heated w. ANSI	6 M					
MASS 2100 DI 6, DN 25 (1")	6 N					
MASS 2100 DI 6, DN 25 (1") Heated w. EN	6 P					
MASS 2100 DI 6, DN 25 (1") Heated w. ANSI	6 Q					
MASS 2100 DI 15, DN 15 (1/2")	7 A					
MASS 2100 DI 15, DN 15 (1/2") Heated w. EN	7 B					
MASS 2100 DI 15, DN 15 (1/2") Heated w. ANSI	7 C					
MASS 2100 DI 15, DN 20 (3/4")	7 D					
MASS 2100 DI 15, DN 20 (3/4") Heated w. EN	7 E					
MASS 2100 DI 15, DN 20 (3/4") Heated w. ANSI	7 F					
MASS 2100 DI 15, DN 25 (1")	7 G					
MASS 2100 DI 15, DN 25 (1") Heated w. EN	7 H					
MASS 2100 DI 15, DN 25 (1") Heated w. ANSI	7 J					
Process connection/Pressure				Local User Interface		
No connections (spare part transmitter)	A 0			Blind		1
EN1092-1 B1, PN40	A 1					
EN1092-1 B1, PN100	A 3					
ASME B16.5, RF, Class 150	D 1					
ASME B16.5, RF, Class 600	D 3					
DIN 11851 Screwed connection	F 1					
ISO2852 Hyg. Clamped	J 1					
ISO2853 Hyg. Screwed	J 5					
ISO 228-1 Pipe thread, PN 100	C 1					
ISO 228-1 Pipe thread, PN 130	C 2					
ISO 228-1 Pipe thread, PN 200	C 3					
ISO 228-1 Pipe thread, PN 230	C 4					
ISO 228-1 Pipe thread, PN 265	C 5					
ISO 228-1 Pipe thread, PN 350	C 6					
ISO 228-1 Pipe thread, PN 365	C 7					
ISO 228-1 Pipe thread, PN 410	C 8					
NPT ASME B 1.20.1 Pipe thread, PN 100	N 1					
NPT ASME B 1.20.1 Pipe thread, PN 130	N 2					
NPT ASME B 1.20.1 Pipe thread, PN 200	N 3					
NPT ASME B 1.20.1 Pipe thread, PN 230	N 4					
NPT ASME B 1.20.1 Pipe thread, PN 265	N 5					
NPT ASME B 1.20.1 Pipe thread, PN 350	N 6					
NPT ASME B 1.20.1 Pipe thread, PN 365	N 7					
NPT ASME B 1.20.1 Pipe thread, PN 410	N 8					

¹⁾ SITRANS FC sensors MASS 2100/FC300 with SIFLOW FC070 transmitter (7ME4818-) are in preparation.

Flow Measurement

SITRANS F C

SITRANS F C sensors MASS 2100/FC300 with FCT010, FCT030 and SIFLOW FC070 transmitters (Low flow program)

Selection and Ordering data	Order code
Futher designs Please add “-Z“ to Article No. and specify Order code(s).	
SW functions & CT approvals Standard	B11
Certificates Press test certificate CRN Press test certificate PED Material certificate EN 10204-3.1 Welding inspection report Factory certificate according to EN 10204 2.2 Factory certificate according to EN 10204 2.1 Cleaning for oil and grease/ASTM-A380 Cleaned according to PWIS	C01 C02 C12 C13 C14 C15 C50 C51
Sensor data storage Sensor with SensorFlash for FCT Sensor with SensorProm for MASS 6000 and SIFLOW FC070 (in preparation)	S20 S21
Cable sensor-transmitter None 5 m cable for SIFLOW FC070 10 m cable for SIFLOW FC070 25 m cable for SIFLOW FC070 50 m cable for SIFLOW FC070 75 m cable for SIFLOW FC070 150 m cable for SIFLOW FC070	L50 L79 L80 L81 L82 L83 L84
Additional data Please add “-Z“ to Article No. and specify Order code(s) and plain text.	
Tag name Tag name plate, stainless steel	Y17
Extended calibration Multi-point high, (5 flows x 2 passes), 10 ... 100 % of Q_{nom} Multi-point high, (10 flows x 1 pass), 10 ... 100 % of Q_{nom}	Y61 Y63

Flow Measurement

SITRANS F C

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS MASS 6000 and SIFLOW FC070 transmitter

Note: Technical specification see page 3/187 to 3/198.

Selection and Ordering data		Article No.	Ord. code	Article No.	Ord. code
SITRANS F C sensors		7ME4100 -		7ME4100 -	
MASS 2100 without heating jacket					
↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.					
Diameter					
Stainless steel AISI 316L/1.4435		1C		40	
DI 3 (PN 100/PN 230)		1D		41	
DI 6		1E		42	
DI 15					
Hastelloy C22/2.4602		2C		50	
DI 3 (PN 100/PN 350)		2D		51	
DI 6		2E		52	
DI 15					
Pressure					
PN 16 (DI 6, DI 15)		A		60	
PN 25 (DI 6, DI 15)		B		61	
PN 40 (DI 6, DI 15)		C		62	
PN 100 (DI 3, DI 6, DI 15)		D			
PN 130 (DI 15, ½", AISI 316L/1.4404)		G			
PN 200 (DI 15, ½", Hastelloy C22/2.4602)		K			
PN 230 (DI 3, ¼", AISI 316L/1.4404)		L			
PN 265 (DI 6, ¼", AISI 316L/1.4404)		M			
PN 350 (DI 3, ¼", Hastelloy C22/2.4602)		N			
PN 410 (DI 6, ¼", Hastelloy C22/2.4602)		Q			
Class 150 (DI 6, DI 15)		R			
Class 600 (DI 6, DI 15)		S			
Process connection/flange					
Pipe thread					
G ¼"		10		A	
½" NPT		11		B	
G ½"		12		C	
½" NPT		13		D	
G 1		14		E	
1" NPT		15		F	
G 2"		16		G	
2" NPT		17			
Flange EN1092-1 Form B					
DN 10 (PN 40/PN 100)		20		A	
DN 15 (PN 40/PN 100)		21		B	
DN 25 (PN 40/PN 100)		22		C	
Flange ASME/ANSI B 16.5				D	
½" (class 150/class 600)		30		E	
				F	
				G	
Cable					
No cable					
Cable with one M20 connector and one end for terminal connect					
• 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)					
Calibration/verification					
Standard calibration 3 flow x 2 points		1			
Stand. calibration matched pair 3 flow x 2 points		2			
Accredited calibration matched pair 5 flow x 2 points (ISO 17025)		3			
Extended calibration customer-specified select Y60, Y61, Y62 or Y63 (see additional information)		8			

Flow Measurement

SITRANS F C

SITRANS F C sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS MASS 6000 and SIFLOW FC070 transmitter

Dairy MLFB example

MASS 2100

Sensor size DI 15,
AISI 316L/1.4435
PN 40
DN 15 connector
Standard configuration/calibration
MASS 6000 IP67 compact mounted
No cable
Standard calibration, 3 flow x 2 points



Selection and Ordering data

Additional information

Please add “-Z” to Article No. and specify Order code(s) and plain text.

Pressure testing certificate PED: 2014/68/EU

Material certificate EN 10204-3.1

NDT-X-ray inspection report: EN 1435
DI3 sensor only: NDT-Penetrant inspection report ISO 3452.

Factory certificate according to EN 10204 2.2

Factory certificate according to EN 10204 2.1

Tag name plate, stainless steel

Tag name plate, plastic

Customer-specific transmitter setup

Customer-specified, matched pair (5 x 2)

Customer-specified calibration (5 x 2)

Customer-specified, matched pair (10 x 1)

Customer-specified calibration (10 x 1)

Cleaned for oil and grease

Special version

Order code

C11

C12

C13

C14

C15

Y17

Y18

Y20

Y60

Y61

Y62

Y63

Y80

Y99

Operating instructions for SITRANS F C MASS 2100 DI 3 to DI 40

Description Article No.

- English **A5E02896535**
- German **A5E03073519**

All literature is available to download for free, in a range of languages, at www.siemens.com/processinstrumentation/documentation

Selection and Ordering data

Accessories

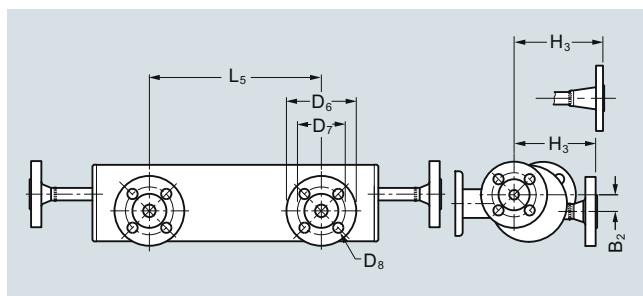
Description	Dimension	Article No.
Mating parts for hygienic fittings DIN 11851 (AISI 316L) Includes: <ul style="list-style-type: none">• 2 unions• 2 mating parts (for welding in)• 2 EPDM gaskets		
DN 10	FDK:085U1016	
DN 15	FDK:085U1017	
DN 25	FDK:085U1019	
Mating parts for hygienic clamp ISO 2852 (AISI 316L) Includes: <ul style="list-style-type: none">• 2 clamps• 2 mating parts• 2 EPDM gaskets		
25 mm	FDK:085U1029	

2 EPDM gaskets with collar for mounting set DIN 11851

Description	Length	Article No.
Cable with M20 connector Standard blue cable between MASS 6000 and MASS 2100, 5 x 2 x 0.34 mm ² twisted and screened in pairs.		
5 m (16.4 ft)	FDK:083H3015	
10 m (32.8 ft)	FDK:083H3016	
25 m (82 ft)	FDK:083H3017	
50 m (164 ft)	FDK:083H3018	
75 m (246 ft)	FDK:083H3054	
150 m (492 ft)	FDK:083H3055	

Spare parts

Description	Article No.
Adapter for MASS 2100 M20 electrical adapter for MASS 2100 DI 3, 6, 15, 25 and 40	FDK:083L8889
M20 connector for cable mounting	FDK:083H5056
2 kB SENSORPROM unit, including programming (Sensor Serial No. and Article No. must be specified by ordering)	FDK:083H4410

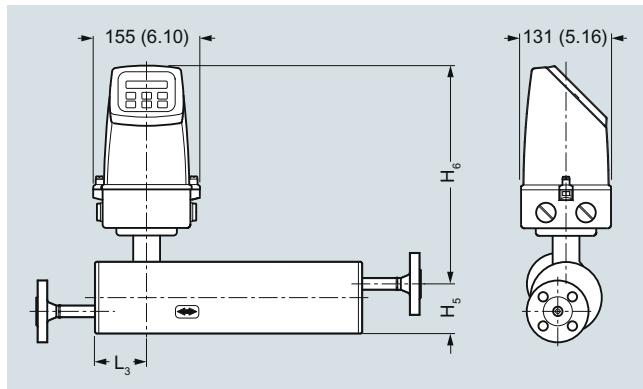
SITRANS FC sensor MASS 2100 DI 3, DI 6 and DI 15 with SITRANS MASS 6000 and SIFLOW FC070 transmitter
MASS 2100 sensor with "heating jacket"


Dimensions in mm (inch)

3

Sensor size		Connections heated		L5	H3	B2	D6	D7	D8
DI (inch)	Type	Pressure rating	Size	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
DI 3 (1/8)	EN 1092-1	PN 40	DN 15	234 (9.21)	122 (4.8)	22 (0.87)	95 (3.74)	65.0 (2.56)	14.0 (0.55)
	ANSI B16.5	Class 150	1/2"	234 (9.21)	131.6 (5.18)	22 (0.87)	88.9 (3.5)	60.5 (2.38)	15.7 (0.62)
DI 6 (1/4)	EN 1092-1	PN 40	DN 15	234 (9.21)	112 (4.41)	22.7 (0.89)	95 (3.74)	65.0 (2.56)	14.0 (0.55)
	ANSI B16.5	Class 150	1/2"	234 (9.21)	121.6 (4.79)	22.7 (0.89)	88.9 (3.5)	60.5 (2.38)	15.7 (0.62)
DI 15 (1/2)	EN 1092-1	PN 40	DN 15	234 (9.21)	126.5 (4.98)	31.5 (1.24)	95 (3.74)	65.0 (2.56)	14.0 (0.55)
	ANSI B16.5	Class 150	1/2"	234 (9.21)	136.1 (5.36)	31.5 (1.24)	88.9 (3.5)	60.5 (2.38)	15.7 (0.62)

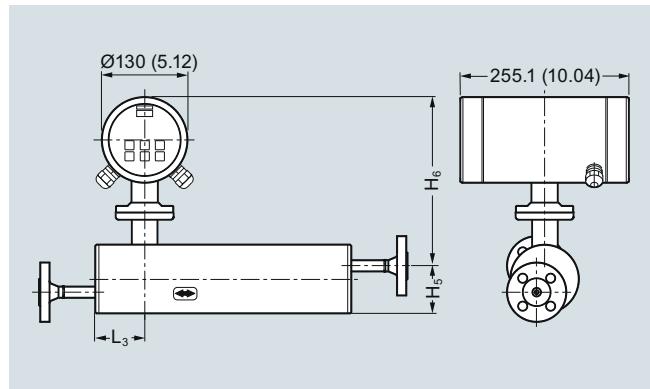
MASS 2100 and MASS 6000 IP67 compact version



MASS 2100 and MASS 6000 IP67 compact version, dimensions in mm (inch)

Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75 (2.95)	82 (3.23)	306 (12.04)	388 (15.28)
6 (1/4)	62 (2.44)	72 (2.83)	316 (12.44)	388 (15.28)
15 (1/2)	75 (2.95)	87 (3.43)	326 (12.83)	413 (16.26)

MASS 2100 and MASS 6000 Ex d compact version



MASS 2100 and MASS 6000 Ex d compact version, dimensions in mm (inch)

Sensor size [DI (inch)]	L ₃ [mm (inch)]	H ₅ [mm (inch)]	H ₆ [mm (inch)]	H ₅ + H ₆ [mm (inch)]
3 (1/8)	75 (2.95)	82 (3.23)	247 (9.72)	329 (12.95)
6 (1/4)	62 (2.44)	72 (2.83)	257 (10.12)	329 (12.95)
15 (1/2)	75 (2.95)	87 (3.43)	267 (10.51)	354 (13.94)