

Flow Measurement

SITRANS F C

Flow sensor MASS 2100 DI 3 to DI 40

Selection and Ordering data	Article No.	Ord. code	Selection and Ordering data	Article No.	Ord. code
SITRANS F C sensors			SITRANS F C sensors		
MASS 2100 without heating jacket	7ME4100-		MASS 2100 without heating jacket	7ME4100-	
MASS 2100 heated, DN 15 connection	7ME4200-		MASS 2100 heated, DN 15 connection	7ME4200-	
MASS 2100 heated, ½ inch, ANSI B16.5 connection	7ME4210-		MASS 2100 heated, ½ inch, ANSI B16.5 connection	7ME4210-	
Diameter			Dairy screwed connection DIN 11851		
Stainless steel AISI 316L/1.4435			DN 10 (PN 40)	40	
DI 3 (PN 100/PN 230)	1C		DN 15 (PN 40)	41	
DI 6	1D		DN 25 (PN 40)	42	
DI 15	1E		DN 32 (PN 40)	43	
DI 25	1F		DN 40 (PN 25)	44	
DI 40	1G		DN 50 (PN 25)	45	
Hastelloy C22/2.4602			DN 65 (PN 25)	46	
DI 3 (PN 100/PN 350)	2C		Dairy clamp connection ISO 2852 (DIN 32676)		
DI 6	2D		Cone down the sensor in order to obtain self-drainage with connectors ISO 2852		
Pressure			25 mm (PN 16)	50	
PN 16 (DI 6, DI 15, DI 25 and DI 40)	A		38 mm (PN 16)	51	
PN 25 (DI 6, DI 15, DI 25 and DI 40)	B		51 mm (PN 16)	52	
PN 40 (DI 6, DI 15, DI 25 and DI 40)	C		Dairy screwed connection ISO 2853		
PN 100 (DI 3, DI 6, DI 15, DI 25 and DI 40)	D		25 mm (PN 16)	60	
PN 105 (DI 40, 2", AISI 316L/1.4404)	E		38 mm (PN 16)	61	
PN 110 (DI 25, 1", AISI 316L/1.4404)	F		51 mm (PN 16)	62	
PN 130 (DI 15, ½", AISI 316L/1.4404)	G		Configuration/calibration type		
PN 185 (DI 25, 1", Hastelloy C22/2.4602)	J		Standard	1	
PN 200 (DI 15, ½", Hastelloy C22/2.4602)	K		Density	2	
PN 230 (DI 3, ¼", AISI 316L/1.4404)	L		Brix/Plato	3	
PN 265 (DI 6, ¼", AISI 316L/1.4404)	M		Fraction (specification required)	9	N O Y
PN 350 (DI 3, ¼", Hastelloy C22/2.4602)	N		Transmitter compact mounted on sensor		
PN 410 (DI 6, ¼", Hastelloy C22/2.4602)	Q		No transmitter, sensor and adapter only	A	
Class 150 (DI 6, DI 15, DI 25 and DI 40)	R		MASS 6000, Ex d, stainless steel enclosure, 1 current, 1 freq./pulse and 1 relay output, 24 V AC/DC with Ex de [ia/ib] T3-T6 Ex-approval	B	
Class 600 (DI 6, DI 15, DI 25 and DI 40)	S		MASS 6000, IP67, Polyamide enclosure, cable glands M20, 1 current, 1 freq./pulse and 1 relay output, 24 V AC/DC	C	
Process connection/flange			MASS 6000, IP67, Polyamide enclosure, cable glands M20, 1 current, 1 freq./pulse and 1 relay output, 115/230 V AC 50/60 Hz	D	
Pipe thread			MASS 6000, IP67, Polyamide enclosure, cable glands ½" NPT, 1 current, 1 freq./pulse and 1 relay output, 24 V AC/DC	E	
G ¼"	10		MASS 6000, IP67, Polyamide enclosure, cable glands ½" NPT, 1 current, 1 freq./pulse and 1 relay output, 115/230 V AC 50/60 Hz	F	
¼" NPT	11		Cable		
G ½"	12		No cable	A	
½" NPT	13		5 m (16.4 ft) cable	B	
G 1	14		10 m (32.8 ft) cable	C	
1" NPT	15		25 m (82 ft) cable	D	
G 2"	16		50 m (164 ft) cable	E	
2" NPT	17		75 m (246 ft) cable	F	
Flange EN1092-1 Form B			150 m (492 ft) cable	G	
DN 10 (PN 40/PN 100)	20		Calibration/verification		
DN 15 (PN 40/PN 100)	21		Standard calibration 3 flow x 2 points	1	
DN 25 (PN 40/PN 100)	22		Stand. calibration matched pair 3 flow x 2 points	2	
DN 40 (PN 40/PN 100)	23		Accredited calibration matched pair 5 flow x 2 points (DANAK to ISO 17025)	3	
DN 50 (PN 40/PN 100)	24		Extended calibration customer-specified select Y60, Y61, Y62 or Y63 (see additional information)	8	
Flange ASME/ANSI B 16.5					
½" (class 150/class 600)	30				
¾" (class 150/class 600)	31				
1" (class 150/class 600)	32				
1 ½" (class 150/class 600)	33				
2" (class 150/class 600)	34				

Dairy MLFB example

MASS 2100

Sensor size DI 15,
AISI 316L/1.4435

PN 40

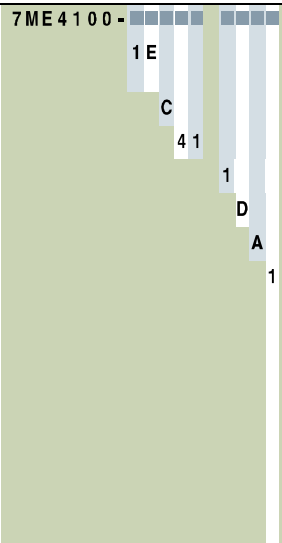
DN 15 connector

Standard configuration/calibration

MASS 6000 IP67 compact mounted

No cable

Standard calibration, 3 flow x 2 points



Selection and Ordering data

Order code

Additional information

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

Pressure testing certificate PED: 97/23/EC

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

Operating instructions for

SITRANS F C MASS 2100 DI 3 to DI 40

Description	Article No.
• English	A5E02896535
• German	A5E03073519
• Spanish	A5E03073549
• French	A5E03073539

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

Accessories

Description	Dimension	Article No.
Mating parts for hygienic fittings DIN 11851 Includes: • 2 unions • 2 mating parts (for welding in) • 2 EPDM gaskets	DN 10	FDK:085U1016
	DN 15	FDK:085U1017
	DN 25	FDK:085U1019
	DN 32	FDK:085U1020
	DN 40	FDK:085U1021
	DN 50	FDK:085U1022
Mating parts for hygienic clamp ISO 2852 Includes: • 2 clamps • 2 mating parts • 2 EPDM gaskets	25 mm	FDK:085U1029
	40 mm	FDK:085U1031
	50 mm	FDK:085U1032
2 EPDM gaskets with collar for mounting set DIN 11851	DN 10	FDK:085U1006
	DN 15	FDK:085U1007
	DN 25	FDK:085U1009
	DN 32	FDK:085U1010
	DN 40	FDK:085U1011
DN 50	FDK:085U1012	
DN 65	FDK:085U1013	

Description	Length	Article No.
Cable with multiple plug Standard blue cable between MASS 6000 and MASS 2100, 5 x 2 x 0.34 mm ² twisted and screened in pairs. Temperature range -20 °C ... +110 °C (-4 °F ... +230 °F)		
	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	FDK:083L8889
Multiple plug for cable mounting	FDK:083H5056
2 kB SENSORPROM unit, including programming (Sensor Serial No. and Article No. must be specified by ordering)	
	FDK:083H4410