

Selection and Ordering data		Order No.			
Sensor SITRANS F M MAG 1100 F		7ME6140-			
Diameter					
DN 10 (3/8")	◆	1 R			
DN 15 (1/2")	◆	1 V			
DN 25 (1")	◆	2 D			
DN 40 (1 1/2")	◆	2 R			
DN 50 (2")	◆	2 Y			
DN 65 (2 1/2")	◆	3 F			
DN 80 (3")	◆	3 M			
DN 100 (4")	◆	3 T			
Process connections					
No adaptors (specials see accessories)	◆	A			
<u>Weld in</u>					
DIN 11850	◆	B			
ISO 2037 (SMS 3008)	◆	C			
BS 4825-1		D			
Tri-Weld		E			
<u>Clamp type</u>					
DIN 32676		G			
ISO 2852 (SMS 3016)		H			
BS 4825-3		J			
Tri-Clamp		K			
<u>Threaded type</u>					
DIN 11851		M			
SMS 1145 ¹⁾		N			
Liner material					
PFA (not for Ex)	◆	1			
Ceramic	◆	2			
Gasket material¹⁾					
EPDM flat gasket (FDA, 3A)	◆	0			
FPM/FKM (FDA, 3A) (only with ceramic liner)	◆	2			
EPDM-P gasket (only for PFA) (FDA, EHEDG certified, 3A)	◆	3			
Electrode material					
Hastelloy C (only with PFA liner)	◆			1	
Platinum (only with ceramic liner)	◆			2	
Transmitter					
Standard sensor for remote transmitter (order transmitter separately), 3A	◆				A
Ex sensor for remote transmitter (order transmitter separately) 3A					B
MAG 6000 I, Alu.18 ... 90 V DC, 115 ... 230 V AC					C
MAG 6000 I, Aluminum 18 ... 30 V DC, Ex					D
MAG 6000 I, Aluminum 115 ... 230 V AC, Ex					E
MAG 6000, Polyamide, 11 ... 30 V DC/11 ... 24 V AC	◆				H
MAG 6000, Polyamide, 115 ... 230 V AC	◆				J
MAG 5000, Polyamide, 11 ... 30 V DC/11 ... 24 V AC	◆				K
MAG 5000, Polyamide, 115 ... 230 V AC	◆				L
Communication					
No communication, add-on possible	◆				A
HART	◆				B
PROFIBUS PA Profile 3 (only MAG 6000/MAG 6000 I)	◆				F
PROFIBUS DP Profile 3 (not for Ex) (only MAG 6000/MAG 6000 I)	◆				G
Modbus RTU/RS 485 (not for Ex) (only MAG 6000/MAG 6000 I)	◆				E
FOUNDATION Fieldbus H1 (only MAG 6000/MAG 6000 I)	◆				J

1) SMS 1145 standard is not approved by 3A

Selection and Ordering data

Order No.

Sensor SITRANS F M MAG 1100 F**7 ME 6 1 4 0 -****Cable glands/terminal box**

Metric: Polyamide terminal box or 6000 I compact ◆

1

½" NPT: Polyamide terminal box or 6000 I compact ◆

2

Metric: SS terminal box (mandatory for Stainless steel MAG 6000 Transmitter)

3

½" NPT: SS terminal box (mandatory for Stainless steel MAG 6000 Transmitter)

4

◆ Short lead time (details in PMD)

Selection and Ordering data

Order code

Additional informationPlease add **"-Z"** to Order No. and specify Order code(s) and plain text.

Customer-specific converter setup

Y20

Tag name plate, stainless steel fixed with SS wire (add plain text)

Y17

Tag name plate, plastic (self adhesive)

Y18

Factory certificate according to EN 10204-2.1

C15

Factory certificate according to EN 10204-2.2

C14

Sensor cables wired (specify cable order no.)

Y40

Sensor for remote transmitter's junction box potted with wired cable (specify cable order no.) (not for Ex sensors)

Y41

Other postproduction requirements (add desired text)

Y99

Additional calibrations

• Matched pair - (Standard production calibration where sensor and transmitter is calibrated together)

On request¹⁾

• Customer-specified calibration up to 10 points

On request¹⁾• Customer-witnessed calibration
Any of above calibration**On request¹⁾**

¹⁾ Ordering "On request" as dedicated information from the customer on the individual sensors is required. Please fill in the calibration form found on <http://intranet.automation.siemens.com/w1/automation-technology-flow-measurement-18626.htm#content-19336¶1=Flow%20Measurement> and send together with the order. (Size dependent restriction on maximum flow rates may apply)

Operating instructions for SITRANS F M MAG 1100F**Description**

Order No.

Handbook

• English

A5E02435647

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>

MAG 5000/6000 transmitters and sensors are packed in separate boxes, the final assembly takes place during installation at the customer's place. MAG 6000 I/MAG 6000 I Ex ATEX 2G D transmitters and sensors are delivered compact mounted from factory. Communication module will be pre-mounted in the transmitter.

Please use online Product selector to get latest updates.

Product selector link:

www.pia-selector.automation.siemens.com

Accessories**Description**

Order No.

Potting kit for terminal box of flow sensors for IP68/NEMA 6P (not for Ex sensors)

◆ **FDK:085U0220**

◆ Short lead time (details in PMD)

Accessories

Order No.

Weld-in connection fittings for MAG 1100 F with P gaskets for EHEDG

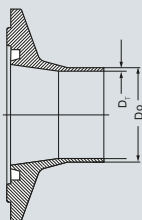
Only for sensors with PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

DIN 11850

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _o (mm)	D _T (mm)	DN (mm)



10 ²⁾	13	1.5	10	◆	A5E02054630
15 ²⁾	19	1.5	15	◆	A5E02054633
20	23	1.5	15		A5E02054634
25	29	1.5	25	◆	A5E02054635
32	35	1.5	25		A5E02054637
40	41	1.5	40	◆	A5E02054638
50	53	1.5	50	◆	A5E02054640
65	70	2.0	65	◆	A5E02054643
80	85	2.0	80	◆	A5E02054644
100	104	2.0	100	◆	A5E02054646

ISO 2037 (SMS3008)

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _o (mm)	D _T (mm)	DN (mm)

12.7	12.7	1.0	10	◆	A5E03727946
17.2	17.2	1.0	15	◆	A5E03728098
25	25	1.6	25	◆	A5E02196073
33	33.7	1.6	25		A5E02196074
38	38	1.6	40	◆	A5E02196075
40	40	1.6	40	◆	A5E02196076
51	51	1.6	50	◆	A5E02196077
63.5	63.5	1.6	65	◆	A5E02196078
76.1	76.1	1.6	80	◆	A5E02196080
101.6	101.6	2.0	100		A5E02196082

Tri-Weld (BS 485-1)

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _o (mm)	D _T (mm)	DN (mm)

12.7	12.7	1.2	10		A5E02199113
19.05	19.05	1.2	15		A5E02199114
25.4	25.4	1.6	25		A5E02199115
38.1	38.1	1.6	40		A5E02199116
50.8	50.8	1.6	50		A5E02199117
63.5 ¹⁾	63.5	1.6	65		A5E02199118
76.2	76.2	1.6	80		A5E02199119
101.6 ¹⁾	101.6	2.0	100		A5E02199120

◆ Short lead time (details in PMD)

D_o: outer diameterD_i: inner diameter

1) For BS 4825-1 see ISO 2037

2) Not EHEDG approved

Accessories

Order No.

Clamp-type connection fittings for MAG 1100 F with P gaskets for EHEDG

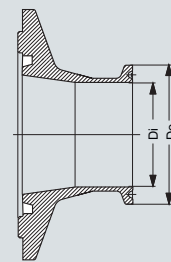
Only for sensors with PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

DIN 32676

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _o (mm)	D _i (mm)	DN (mm)



10	34	10	10	A5E02211143
15	34	16	15	A5E02211144
25	50.5	22.6	25	A5E02211146
40	50.5	38	40	A5E02211147
50	64	50	50	A5E02211148
65	91	66	65	A5E02211151
80	106	81	80	A5E02211152
100	119	100	100	A5E02211153

ISO 2852 (SMS 3016, BS 4825-3)

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _o (mm)	D _i (mm)	DN (mm)

25	50.5	22.6	25	A5E02213581
33.7	50.5	31.3	25	A5E02213582
38	50.5	35.6	40	A5E02213583
51	64	48.6	50	A5E02213584
63.5	77.5	60.3	65	A5E02213585
76.1	91	72.9	80	A5E02213586
101.6	119	97.6	100	A5E02213587

Tri-Clamp

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _o (mm)	D _i (mm)	DN (mm)

12.7	25.4	9.5	10	A5E02213596
19.05	25.4	15.85	15	A5E02213597
25.4	50.5	22.2	25	A5E02213598
38.1	50.5	34.9	40	A5E02213599
50.8	64	47.6	50	◆ A5E02213600
63.5	77.5	60.3	65	A5E02213601
76.2	91	73	80	◆ A5E02213602
101.6	119	97.6	100	A5E02213603

◆ Short lead time (details in PMD)

D_o: outer diameterD_i: inner diameter

Accessories

Order No.

**Threaded type connection fittings for
MAG 1100 F with P gaskets for EHEDG**

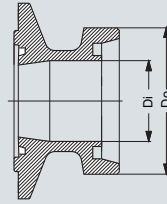
Only for sensors with PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

DIN 11851

<u>Adapter</u>		<u>Sensor</u>	
DN (mm)	D _o (mm)	D _i (mm)	DN (mm)



10	28	10	10
15	34	16	15
20	44	20	15
25	52	26	25
32	58	32	25
40	65	38	40
50	78	50	50
65	95	66	65
80	110	81	80
100	130	100	100

A5E02218293
A5E02218294
A5E02218295
◆ **A5E02218296**
A5E02218297
◆ **A5E02218298**
◆ **A5E02218299**
A5E02218300
A5E02218301
A5E02218302

Accessories

Order No.

**Threaded type connection fittings for
MAG 1100 F with P gaskets for EHEDG**

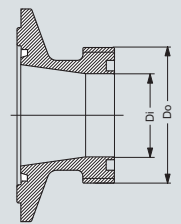
Only for sensors with PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

SMS 1145¹⁾

<u>Adapter</u>		<u>Sensor</u>	
DN (mm)	D _o (mm)	D _i (mm)	DN (mm)



25	40	22.6	25
38	60	35.6	40
51	70	48.6	50
63.5	85	60.3	65
76	98	72	65

A5E02218310
A5E02218312
A5E02218313
A5E02218314
A5E02218315

◆ Short lead time (details in PMD)

D_o: outer diameterD_i: inner diameter¹⁾ SMS 1145 standard is not approved by 3A

Accessories

Order No.

Weld in connection fittings for MAG 1100 F with flat gaskets for 3A

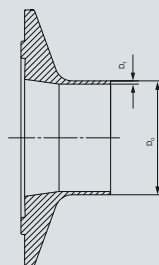
For sensors with ceramic and PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

DIN 11850

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _T (mm)	DN (mm)



10	13	1.5	10	◆	FDK:083G2116
15	19	1.5	15	◆	FDK:083G2117
20	23	1.5	15		FDK:083G2118
25	29	1.5	25	◆	FDK:083G2119
32	35	1.5	25		FDK:083G2120
40	41	1.5	40	◆	FDK:083G2121
50	53	1.5	50	◆	FDK:083G2122
65	70	2.0	65	◆	FDK:083G2123
80	85	2.0	80	◆	FDK:083G2124
100	104	2.0	100	◆	FDK:083G2125

ISO 2037 (SMS3008)

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _T (mm)	DN (mm)

12.7	12.7	1.0	10	◆	A5E03720273
17.2	17.2	1.0	15	◆	FDK:083G2107
25	25.6	1.6	25	◆	FDK:083G2109
33.7	33.7	1.6	25		FDK:083G2100
38	38	1.6	40	◆	FDK:083G2111
40	40	1.6	40	◆	FDK:083G2101
51	51	1.6	50	◆	FDK:083G2112
63.5	63.5	1.6	65	◆	FDK:083G2113
76.1	71.1	1.6	80	◆	FDK:083G2114
101.6	101.6	2.0	100		FDK:083G2115
114.3	118.3	2.0	100		FDK:083G2105

Tri-Weld (BS 4825-1)

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _T (mm)	DN (mm)

12.7	12.7	1.2	10		FDK:083G2276
19.05	19.05	1.2	15		FDK:083G2277
25.4	25.4	1.6	25		FDK:083G2279
38	38.1	1.6	40		FDK:083G2281
50.8	50.8	1.6	50		FDK:083G2282
63.5 ¹⁾	63.5	1.6	65		FDK:083G2283
76.2	76.2	1.6	80		FDK:083G2284
101.6 ¹⁾	101.6	2.0	100		FDK:083G2285

◆ Short lead time (details in PMD)

D_O: outer diameterD_i: inner diameter¹⁾ For BS 4825-1 see ISO 2037**Accessories**

Order No.

Clamp-type connection fittings for MAG 1100 F with flat gaskets for 3A

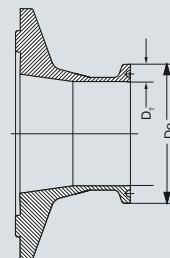
For sensors with ceramic and PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

DIN 32676

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _T (mm)	DN (mm)



25	50.5	26	25	FDK:083G2179
40	50.5	38	40	FDK:083G2181
50	64	50	50	FDK:083G2182
65	91	66	65	FDK:083G2183
80	106	81	80	FDK:083G2184
100	119	100	100	FDK:083G2185

ISO 2852 (SMS 3016, BS 4825-3)

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _T (mm)	DN (mm)

25	50.5	22.6	25	FDK:083G2189
33.7	50.5	31.3	25	FDK:083G2190
38	50.5	35.6	40	FDK:083G2191
51	64	48.6	50	FDK:083G2192
63.5	77.5	60.3	65	FDK:083G2193
76.1	91	72.9	80	FDK:083G2194
101.6	119	97.6	100	FDK:083G2195

Tri-Clamp

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _T (mm)	DN (mm)

12.7	25.4	9.5	10	FDK:083G2286
19.05	25.4	15.85	15	FDK:083G2287
25.4	50.5	22.2	25	FDK:083G2289
38.1	50.5	34.9	40	FDK:083G2291
50.8	64	47.6	50	◆ FDK:083G2292
63.5	77.5	60.3	65	FDK:083G2294
76.2	91	73	80	◆ FDK:083G2294
101.6	119	97.6	100	FDK:083G2295

◆ Short lead time (details in PMD)

D_O: outer diameterD_i: inner diameter

Accessories

Order No.

**Threaded type connection fittings for
MAG 1100 F with flat gaskets for 3A**

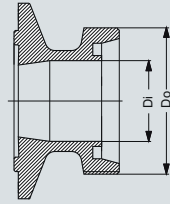
For sensors with ceramic and PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

DIN 11851

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _I (mm)	DN (mm)

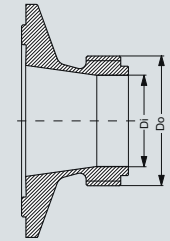


10	28	10	10
15	34	16	15
20	44	20	15
25	52	26	25
32	58	32	25
40	65	38	40
50	78	50	50
65	95	66	65
80	110	81	80
100	130	100	100

FDK:083G2156
FDK:083G2157
FDK:083G2158
 ◆ **FDK:083G2159**
FDK:083G2160
 ◆ **FDK:083G2161**
 ◆ **FDK:083G2162**
FDK:083G2163
FDK:083G2164
FDK:083G2165

ISO 2853

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _I (mm)	DN (mm)



25	37	22.6	25
38	51	35.6	40
51	64	48.6	50
63.5	78	60.3	65
76.1	91	72.9	80

FDK:083G2149
FDK:083G2151
FDK:083G2152
FDK:083G2153
FDK:083G2154

BS 4825-4

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _I (mm)	DN (mm)

25.4	37	22.2	25
38.1	51	34.9	40
50.8	64	47.6	50
63.5	78	60.3	65
76.2	91	73	80
101.6	126	97.6	100

A5E03732429
A5E03732431
A5E03732433
A5E03732434
A5E03732435
FDK:083G2145

Accessories

Order No.

**Threaded type connection fittings for
MAG 1100 F with flat gaskets for 3A**

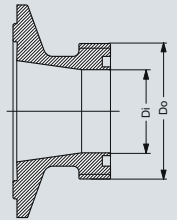
For sensors with ceramic and PFA liner.

2 pcs. fittings

2 pcs. clamps (to join flow sensor and fitting)

SMS 1145¹⁾

<u>Adapter</u>			<u>Sensor</u>
DN (mm)	D _O (mm)	D _I (mm)	DN (mm)



25	40	22.6	25
38	60	35.6	40
51	70	48.6	50
63.5	85	60.3	65
76	98	72	65

FDK:083G2139
FDK:083G2141
FDK:083G2142
FDK:083G2143
FDK:083G2144

◆ Short lead time (details in PMD)

D_O: outer diameterD_I: inner diameter¹⁾ SMS 1145 standard is not approved by 3A

Spare parts for MAG 1100 F	Order No.
Gaskets	
(2 pcs., between flow sensor and adapter)	
<u>MAG 1100 F (PFA) - P gaskets</u>	
Rubber: EPDM (FDA)	
• DN 10	A5E02055286
• DN 15	A5E02055287
• DN 25	A5E02055290
• DN 40	A5E02055291
• DN 50	A5E02055292
• DN 65	A5E02055293
• DN 80	A5E02055295
• DN 100	A5E02055297
<u>MAG 1100 F (ceramic) - flat gaskets</u>	
Rubber: FKM/FPM (FDA)	
• DN 10	A5E00915707
• DN 15	A5E00915764
• DN 25	A5E00915771
• DN 40	A5E00915773
• DN 50	A5E00915775
• DN 65	A5E00915780
• DN 80	A5E00915782
• DN 100	A5E00915784
<u>MAG 1100 F (PFA) - flat gaskets</u>	
Rubber: EPDM (FDA)	
• DN 10	FDK:083G2206
• DN 15	FDK:083G2207
• DN 25	FDK:083G2209
• DN 40	FDK:083G2211
• DN 50	FDK:083G2212
• DN 65	FDK:083G2213
• DN 80	FDK:083G2214
• DN 100	FDK:083G2215
Rubber: NBR	
• DN 10	FDK:083G2216
• DN 15	FDK:083G2217
• DN 25	FDK:083G2219
• DN 40	FDK:083G2221
• DN 50	FDK:083G2222
• DN 65	FDK:083G2223
• DN 80	FDK:083G2224
• DN 100	FDK:083G2225