

Flow Measurement

SITRANS F M

Flow sensor MAG 5100 W

Selection and Ordering data	Article No.	Selection and Ordering data	Article No.
Sensor SITRANS F M MAG 5100 W	7 ME 6 5 2 0 -	Sensor SITRANS F M MAG 5100 W	7 ME 6 5 2 0 -
Hastelloy electrodes, carbon steel flanges, EU water markets and low flow applications	■ ■ ■ ■ ■ 1 - 2 ■ ■ ■ ■ ■	Hastelloy electrodes, carbon steel flanges, EU water markets and low flow applications	■ ■ ■ ■ ■ 1 - 2 ■ ■ ■ ■ ■
Diameter		Communication	
DN 15 (½")	◆ 1 V	None	◆ A
DN 25 (1")	◆ 2 D	HART	◆ B
DN 40 (1½")	◆ 2 R	PROFIBUS PA Profile 3 (only MAG 6000/MAG 6000 I)	◆ F
DN 50 (2")	◆ 2 Y	PROFIBUS DP Profile 3 (only MAG 6000/MAG 6000 I)	◆ G
DN 65 (2½")	◆ 3 F	Modbus RTU/RS 485 (only MAG 6000/MAG 6000 I)	◆ E
DN 80 (3")	◆ 3 M	FOUNDATION Fieldbus H1 (only MAG 6000/ MAG 6000 I)	◆ J
DN 100 (4")	◆ 3 T		
DN 125 (5")	◆ 4 B	Cable glands/terminal box	
DN 150 (6")	◆ 4 H	Metric/Polyamid terminal box or 6000 I compact	◆ 1
DN 200 (8")	◆ 4 P	½" NPT/Polyamid terminal box or 6000 I compact	◆ 2
DN 250 (10")	◆ 4 V		
DN 300 (12")	◆ 5 D	◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.	
DN 350 (14")	◆ 5 K		
DN 400 (16")	◆ 5 R		
DN 450 (18")	◆ 5 Y		
DN 500 (20")	◆ 6 F		
DN 600 (24")	◆ 6 P		
DN 700 (28")	◆ 6 Y		
DN 750 (30")	◆ 7 D		
DN 800 (32")	◆ 7 H		
DN 900 (36")	◆ 7 M		
DN 1000 (40")	◆ 7 R		
(42")	◆ 7 U		
(44")	◆ 7 V		
DN 1200 (48")	◆ 8 B		
Flange norm and pressure rating			
<u>to EN 1092-1</u>			
PN 10 (DN 200 ... 1200/8" ... 48")	◆ B		
PN 16 (DN 50 ... 1200/2" ... 48")	◆ C		
PN 16, non PED (DN 700 ... 1200/28" ... 48")	◆ D		
PN 40 (DN 15 ... 40/½" ... 1½")	◆ F		
<u>to ANSI B16.5</u>			
class 150 (½" ... 24")	◆ J		
<u>to AWWA C-207</u>			
Class D (28" ... 48")	◆ L		
<u>to AS 4087</u>			
PN 16 (DN 50 ... 1200/2" ... 48")	◆ N		
Liner material			
EPDM	◆ 2		
NBR Hard Rubber	◆ 3		
Transmitter			
Sensor for remote transmitter (Order transmitter separately)	◆	A	
MAG 6000 I, Aluminum, 18 ... 90 V DC, 115 ... 230 V AC	◆	C	
MAG 6000, Polyamid, 11 ... 30 V DC/11 ... 24 V AC	◆	H	
MAG 6000, Polyamid, 115 ... 230 V AC	◆	J	
MAG 5000, Polyamid, 11 ... 30 V DC/11 ... 24 V AC	◆	K	
MAG 5000, Polyamid, 115 ... 230 V AC	◆	L	
MAG 6000 CT, Polyamid, 115 ... 230 V AC	◆	M	

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Selection and Ordering data	Order code
Additional information	
Please add "-Z" to Article No. and specify Order code(s) and plain text.	
Factory certificate according to EN 10204-2.2	C14
Factory certificate according to EN 10204-2.1	C15
FP2E marking (only France)	C17
Approval/Verification ²⁾ (MI-001 : DN 50-300 compact, EN 1092-1 PN10 and PN16 flanges with MAG 6000 CT) ³⁾	
• Without verification according to OIML R 49	P10
• MI-001 Q3/Q1 = 25	P11
• MI-001 Q3/Q1 = 63	P12
• MI-001 Q3/Q1 = 80	P13
• MI-001 Q3/Q1 = 160	P16
• MI-001 Q3/Q1 = 200	P17
• MI-001 Q3/Q1 = 250	P18
FM Fire Service Approval (with ANSI B16.5 Class 150 flanges)	
• DN 50, DN 80 and DN 100 (2", 3" and 4")	P20
• DN 150 and DN 200 (6" and 8")	P21
• DN 250 and DN 300 (10" and 12")	P22
Tag name plate, stainless steel fixed with SS wire (add plain text)	Y17
Tag name plate, plastic (self-adhesive)	Y18
Customer-specific converter setup	Y20
Sensor cables wired (specify cable Article No.)	Y40
Sensor for remote transmitter's junction box potted to IP68 with wired cable (specify cable Article No.)	Y41
Other postproduction requirements (add desired text)	Y99
<u>Additional Calibrations</u>	
Accredited Siemens Flow Instruments matched pair Calibration acc. to ISO/IEC 17025:2005	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://pi.khe.siemens.de/index.aspx?Nr=17460> and send together with the order. (Size dependent restriction on maximum flow rates may apply)

²⁾ For more details and references of the ranges please see the tables on page 3/96.

³⁾ For remote version submit Product Variation Request.

Operating instructions for SITRANS F M MAG 5100 W

Description	Article No.
• English	A5E03063678
• German	A5E03376527
• Spanish	A5E00376529
• French	A5E03376521
• Chinese	A5E03376501

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>

Accessories

Description	Article No.
Potting kit for terminal box of flow sensors for IP68/NEMA 6P (not for Ex sensors)	◆ FDK:085U0220



◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.

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 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

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Sensor SITRANS F M MAG 5100 W	7 ME 6 5 8 0 -
Hastelloy electrodes, carbon steel flanges, Non EU water markets	
Diameter	
DN 25 (1")	2 D
DN 40 (1½")	2 R
DN 50 (2")	2 Y
DN 65 (2½")	3 F
DN 80 (3")	3 M
DN 100 (4")	3 T
DN 125 (5")	4 B
DN 150 (6")	4 H
DN 200 (8")	4 P
DN 250 (10")	4 V
DN 300 (12")	5 D
DN 350 (14")	5 K
DN 400 (16")	5 R
DN 450 (18")	5 Y
DN 500 (20")	6 F
DN 600 (24")	6 P
DN 700 (28")	6 Y
DN 750 (30")	7 D
DN 800 (32")	7 H
DN 900 (36")	7 M
DN 1000 (40")	7 R
(42")	7 U
(44")	7 V
DN 1200 (48")	8 B
DN 1400 (54")	8 F
DN 1500 (60")	8 K
DN 1600 (66")	8 P
DN 1800 (72")	8 T
DN 2000 (78")	8 Y
Flange norm and pressure rating	
<u>to EN 1092-1</u>	
PN 6 (DN 1400 ... 2000 (54" ... 78"))	A
PN 10 (DN 200 ... 2000 (8" ... 78"))	B
PN 16 (DN 65 ... 600 (2½" ... 24"))	C
PN 16, non-PED (DN 700 ... 2000 (28" ... 78"))	D
PN 40 (DN 25 ... 50 (1" ... 2"))	F
<u>to ANSI B16.5</u>	
class 150 (1" ... 24")	J
<u>to AWWA C-207</u>	
Class D (28" ... 78")	L
<u>to AS 4087</u>	
PN 16 (DN 50 ... 1200 (2" ... 48"))	N
<u>to JIS</u>	
B 2220:2004 K10 (1" ... 24")	R
Flange material	
Carbon steel flanges ASTM A 105	1
Liner material	
Ebonite Hard Rubber	4
Electrode material	
Hastelloy	2

Selection and Ordering data	Article No.
Sensor SITRANS F M MAG 5100 W	7 ME 6 5 8 0 -
Hastelloy electrodes, carbon steel flanges, Non EU water markets	
Transmitter with display	
Sensor for remote transmitter (Order transmitter separately)	A
MAG 6000, Polyamid, 11 ... 30 V DC/11 ... 24V AC	H
MAG 6000, Polyamid, 115 ... 230 V AC	J
MAG 5000, Polyamid, 11 ... 30 V DC/11 ... 24V AC	K
MAG 5000, Polyamid, 115 ... 230 V AC	L
Communication	
No communication, add-on possible	A
HART	B
PROFIBUS PA Profile 3 (only MAG 6000)	F
PROFIBUS DP Profile 3 (only MAG 6000)	G
Modbus RTU/RS 485 (only MAG 6000)	E
FOUNDATION Fieldbus H1 (only MAG 6000)	J
Cable glands/terminal box	
Metric	1
½" NPT	2

Selection and Ordering data	Order code
Additional information	
Please add "-Z" to Article No. and specify Order code(s) and plain text.	
Factory certificate according to EN 10204-2.2	C14
Factory certificate according to EN 10204-2.1	C15
Tag name plate, stainless steel fixed with SS wire	Y17
Tag name plate, plastic (self-adhesive)	Y18
Customer-specific converter setup	Y20
Sensor cables wired (specify cable Article No.)	Y40
Sensor for remote transmitter's junction box potted to IP68 with wired cable (specify cable Article No.)	Y41
Other postproduction requirements (add desired text)	Y99

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