

SITRANS F flowmeters

SITRANS F M

Transmitter Transmag 2 with sensor 911/E

Overview



Benefits

- Fully-welded steel fitting
- Metering tube liners available made of hard/soft rubber, PTFE or Novolak
- Various flange connections available to EN 1092-1, ANSI B16.5
- Input amplifier with integral data component (smartPLUG) for all calibration values and customized settings if required.

Technical specifications

911/E sensor

Mode of operation and design

Measuring principle Pulsed alternating field

Process connection

Nominal diameters DN 15 ... 600 (½" ... 24")

Metering tube connections EN 1092-1, ANSI B16.5, others on request

Rated operating conditions

Installation conditions

See system information

- Minimum process temperature

-20 °C (-4 °F)

- With hard rubber liner

Max. 90 °C (194 °F)

Option: 100 °C (212 °F)

- With PTFE liner

- 150 °C (300 °F) at 25 bar (363 psi)

- 100 °C (194 °F) at 40 bar (580 psi)

- With Novolak liner

- 130 °C (266 °F) at 40 bar (580 psi)

Ambient temperature limits

- Remote versions

- -20 ... +65 °C (-4 ... +149 °F)

- -20 ... +40 °C (-4 ... +104 °F) with a process temperature > 130 °C (> 266 °F)

- Compact versions from DN 65 (2½")

- -20 ... +65 °C (-4 ... +149 °F) with a process temperature ≤ 60 °C (≤ 140 °F)

- -20 ... +40 °C (-4 ... +104 °F) with a process temperature 60 ... 130 °C (140 ... 266 °F), depends on used sensor and its liner

Degree of protection

IP65 / NEMA 4, IP67 / NEMA 4X
Optional IP68 / NEMA 6

Medium conditions

Minimum conductivity

> 1 μS/cm, on request 0.1 μS/cm depending on medium

Maximum flow velocity

12 m/s (39.4 ft/s)

Full scale value of flow velocity

- Alternating field

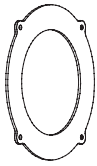
0.15 ... 12 m/s (0.49 ... 39.4 ft/s)

Sensor cables between sensor and transmitter

The signal voltage proportional to the flow and present at the electrodes of the EMF is only a few μV to mV. Superimposed on this are electrochemical interferences resulting from the contact between the electrodes and liquid, and which can be up to several Volt. Also frequently superimposed are line frequency interferences, interferences resulting from vibrations on the pipelines or signal cables, as well as strong magnetic fields in the vicinity. Sufficient shielding must therefore be provided, as well as fixed routing of the signal cables (electrode and magnet current cable) in the case of remote versions. This also applies to devices with integral preamplifier (smartPLUG). The cable length between the sensor and transmitter must not exceed 50 m (164 ft).

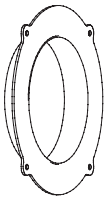
Attention must also be paid to the cable routing. Signal cables must be routed free of vibration, and protected against strong magnetic and stray fields. In case of doubt, the sensor cables must be routed in earthed steel conduit.

Protection washers for liners



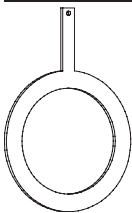
Function	Protection of liner during transport.
Contact with medium	Yes, but the protection washers can be removed prior to installation of the sensor in the pipeline if they are not resistant to the measured medium.
Material	Stainless steel mat. No. 1.4571/316Ti, optionally Hastelloy C4 mat. No. 2.4610
Material thickness	The overall length of the sensor is increased by <ul style="list-style-type: none"> • 6 mm for DN 15 to DN 150 (0.24" for 1/2" to 6") or • 10 mm for DN 200 to DN 600 (0.4" for 8" to 24")
Standard	Yes, can be used for PTFE liners up to PN 10 (MWP 145 psi) and for soft rubber; cannot be used for other liners.
Order No.	7ME592x-....

Protection rings for liners



Function	To protect the edges of liners from abrasion (e.g. gravel, sand etc.). Used mainly with PTFE or soft rubber liners. Deformation of liners possible at high temperatures from 100 to 180 °C (212 to 356 °F) and pressures up to 16 bar (232 psi) are avoided.
Contact with medium	Yes, please always check resistance to measured medium.
Material	Stainless steel mat. No. 1.4571/316Ti, optionally Hastelloy C4 mat. No. 2.4610
Material thickness	The overall length of the sensor is increased by <ul style="list-style-type: none"> • 6 mm for DN 15 to DN 150 (0.24" for 1/2" to 6") or • 10 mm for DN 200 to DN 600 (0.4" for 8" to 24")
Standard	No, optional for PTFE and soft rubber liners. They are required for PTFE liners of PN 16 (MWP 232 psi) or more instead of protection washers, and must be ordered separately.
Order No.	7ME591x-....

Earthing washers



Function	Electrical reference and earthing of the medium. Required if the pipelines are not electrically conducting or are lined (plastic pipelines, concrete pipelines etc.). All earthing rings must be connected to the earthing screw present on the sensor.
Contact with medium	Yes, please always check resistance to measured medium.
Material	Stainless steel mat. No. 1.4571/316Ti, or Hastelloy C4 mat. No. 2.4610
Material thickness	The overall length of the sensor is increased by 2 mm (0.08") per earthing ring.
Standard	No, only optional. Required between the medium and sensor for equipotential bonding between non-conducting pipelines or lined pipelines.
Order No.	7ME590x-....

SITRANS F flowmeters

SITRANS F M

Transmitter Transmag 2 with sensor 911/E

Notes on pressure equipment directive

The devices are designed for liquids of danger group "Gases of fluid group 1". The categories differ according to the version, and are listed in the table below.

The minimum temperature is defined at -10 °C (14 °F) for the flange materials C22.8 (1.0460) and ST52-5 (1.0570).

The minimum temperature is defined at -20 °C (-4 °F) for the flange material 1.4571/316Ti.

Classification according to pressure equipment directive (PED 97/23/EC)

Nominal diameter		Nominal pressure		Permissible media	Category
DN	(inches)	PN	(MWP psi)		
15 ... 25	(½" ... 1")	10 ... 40	(145 ... 580)	Gases fluid group 1 and liquids fluid group 1	Article 3.3
32 ... 100	(1¼" ... 4")	10	(145)	Gases fluid group 1 and liquids fluid group 1	I
32 ... 50	(1¼" ... 2")	16	(232)	Gases fluid group 1 and liquids fluid group 1	I
32 ... 40	(1¼" ... 1½")	25	(363)	Gases fluid group 1 and liquids fluid group 1	I
100 ... 350	(4" ... 12")	10	(145)	Gases fluid group 1 and liquids fluid group 1	II
65 ... 200	(2½" ... 8")	16	(232)	Gases fluid group 1 and liquids fluid group 1	II
50 ... 125	(2" ... 5")	25	(363)	Gases fluid group 1 and liquids fluid group 1	II
32 ... 80	(1¼" ... 3")	40	(580)	Gases fluid group 1 and liquids fluid group 1	II
350 ... 600	(14" ... 24")	10	(145)	Gases fluid group 1 and liquids fluid group 1	III
250 ... 600	(10" ... 24")	16	(232)	Gases fluid group 1 and liquids fluid group 1	III
150 ... 600	(6" ... 24")	25	(363)	Gases fluid group 1 and liquids fluid group 1	III
100 ... 600	(4" ... 24")	40	(580)	Gases fluid group 1 and liquids fluid group 1	III

SITRANS F flowmeters

SITRANS F M

Transmitter Transmag 2 with sensor 911/E

Selection and Ordering data	Order No.	Order code
SITRANS F M 911/E flow sensor		
Rubber liner	7ME51	- - - - - 0
Nominal pressure		
PN 10 (MWP 145 psi)	1	
PN 16 (MWP 232 psi)	2	
PN 25 (MWP 363 psi)	3	
PN 40 (MWP 580 psi)	4	
Design		
Compact, alternating field from DN 65 (2½")	1	
Remote, alternating field	3	
Liner		
Hard rubber		
• VHE/H3b max. 90 °C (194 °F)	1	
• VHE/G31 up to 100 °C (212 °F)	2	
• VHE/181 (potable water - KTW)	3	
Soft rubber VWE/R61	4	
Neoprene BWE/DN 63	5	
Soft rubber VWE/1645 (potable water - KTW)	6	
Nominal diameter		
DN 15 (½")		A
DN 20 (¾")		B
DN 25 (1")		C
DN 32 (1¼")		D
DN 40 (1½")		E
DN 50 (2")		F
DN 65 (2½")		G
DN 80 (3")		H
DN 100 (4")		J
DN 125 (5")		K
DN 150 (6")		L
DN 200 (8")		M
DN 250 (10")		N
DN 300 (12")		P
DN 350 (14")		Q
DN 400 (16")		R
DN 500 (20")		S
DN 600 (24")		T
Other nominal diameters: specify in plain text		Z
Connection flange		
DIN 2501/EN 1092-1, mat. No. 1.0460/1.0570 (mild steel)		A
DIN 2501/EN 1092-1, mat. No. 1.4571/316Ti		B
ANSI B 16.5 RF, mat. No. 1.0432/1.0570 (mild steel), to 10 bar (145 psi)		C
ANSI 300 RF, steel, to 20 bar (290 psi)		D
JIS 10 K, mat. No. 1.0570		E
Other connection form		Z
Electrode material		
Mat. No. 1.4571/316Ti		1
Hastelloy C4 (mat. No. 2.4610)		2
Titanium		3
Tantalum		4
Monel		5
Platinum head with shaft, mat. No. 1.4571/316Ti		7
Other materials: specify in plain text		9
		J 1 Y
		K 1 Y
		L 1 Y

Selection and Ordering data	Order No.	Order code
SITRANS F M 911/E flow sensor		
Rubber liner	7ME51	- - - - - 0
Sealing material		
Viton		1
EPDM		2
Kalrez		3
Protection washers, protection rings		
Without		0
With protection washers (only for soft rubber and Neoprene; order as accessory)		1
With protection rings (only for soft rubber and Neoprene; order as accessory)		2
Cable gland		
½" NPT		B
M16 x 1.5		C
Degree of protection		
IP67/NEMA4X		B
IP68/NEMA6, cable length 5 m (16.4 ft)		C
IP68/NEMA6, cable length 10 m (32.8 ft)		D
IP68/NEMA6, other cable lengths (order as accessory 7ME5930...)		E
Selection and Ordering data		Order Code
Additional information		
Please add "-Z" to Order No. and specify Order code(s) and plain text.		
One earthing (grounding) electrode made of mat No. 1.4571/316Ti up to DN 300 (12")		A01
Two earthing (grounding) electrodes made of mat. No. 1.4571/316Ti above DN 350 (14")		A02
One earthing (grounding) electrode made of Hastelloy C4/2.4610 up to DN 300 (12")		A03
Two earthing (grounding) electrodes made of Hastelloy C4/2.4610 above DN 350 (14")		A04
Replaceable electrodes above DN 100 (4")		A05
Replaceable electrodes above DN 100 (4"), replaceable under pressure		A06
With 3-point calibration certificate up to DN 600 (24") or Q _{max} > 2000 m ³ /h (8805 USgpm)		B06
With 6-point calibration certificate up to DN 600 (24") or Q _{max} > 2000 m ³ /h (8805 USgpm)		B07
Rating plate inscription in English		B11
Acceptance test B to DIN 50049, Section 3.1 and EN 10204		C12
Factory certificate to EN 10204-2.2		C14
Silicone-free materials		Y04
Measuring-point number (max. 16 char.), specify in plain text. Y15:....		Y15
Measuring-point description (max. 27 char.), specify in plain text. Y16:....		Y16
Stainless steel tag plate		Y17
Special design, specify quotation No./date in plain text		Y99

SITRANS F flowmeters

SITRANS F M

Transmitter Transmag 2 with sensor 911/E

Selection and Ordering data Order No. Order code

SITRANS F M 911/E flow sensor

Novolak liner

7 ME 5 2 - 0 - 0

Nominal pressure

PN 10 (MWP 145 psi)
PN 16 (MWP 232 psi)
PN 25 (MWP 363 psi)
PN 40 (MWP 580 psi)

1
2
3
4

Design

Compact, alternating field from DN 65 (2½")
Remote, alternating field

1
3

Nominal diameter

DN 50 (2")
DN 65 (2½")
DN 80 (3")
DN 100 (4")
DN 125 (5")
DN 150 (6")
DN 200 (8")
DN 250 (10")
DN 300 (12")
DN 350 (14")
DN 400 (16")
DN 500 (20")
DN 600 (24")

F
G
H
J
K
L
M
N
P
Q
R
S
T
Z

Other nominal diameters: specify in plain text

J 1 Y

Connection flange

DIN 2501/EN 1092-1, mat. No. 1.0460/1.0570 (mild steel)
DIN 2501/EN 1092-1, mat. No. 1.4571/316Ti
ANSI B 16.5 RF, mat. No. 1.0432/1.0570 (mild steel), to 10 bar (145 psi)
ANSI 300 RF, steel, to 20 bar (290 psi)
JIS 10 K, mat. No. 1.0570
Other connection form

A
B
C
D
E
Z

K 1 Y

Electrode material

Mat. No. 1.4571/316Ti
Hastelloy C4 (mat. No. 2.4610)
Titanium
Tantalum
Platinum head with shaft, mat. No. 1.4571/316Ti
Other materials: specify in plain text

1
2
3
4
7
9

L 1 Y

Sealing material

Viton
EPDM
Kalrez

1
2
3

Protection washers, protection rings

Without
With protection rings (order as accessory)

0
2

Cable gland

½" NPT
M16 x 1.5

B
C

Selection and Ordering data Order No. Order code

SITRANS F M 911/E flow sensor

Novolak liner

7 ME 5 2 - 0 - 0

Degree of protection

IP67/NEMA4X
IP68/NEMA6, cable length 5 m (16.4 ft)
IP68/NEMA6, cable length 10 m (32.8 ft)
IP68/NEMA6, other cable lengths (order as accessory 7ME5930...)

B
C
D
E

Selection and Ordering data Order Code

Additional information

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

One earthing (grounding) electrode made of mat No. 1.4571/316Ti up to DN 300 (12")

A01

Two earthing (grounding) electrodes made of mat. No. 1.4571/316Ti above DN 350 (14")

A02

One earthing (grounding) electrode made of Hastelloy C4/2.4610 up to DN 300 (12")

A03

Two earthing (grounding) electrodes made of Hastelloy C4/2.4610 above DN 350 (14")

A04

Replaceable electrodes above DN 100 (4"), replaceable under pressure

A06

With 3-point calibration certificate up to DN 600 (24") or $Q_{max} > 2000 \text{ m}^3/\text{h}$ (8805 USgpm)

B06

With 6-point calibration certificate up to DN 600 (24") or $Q_{max} > 2000 \text{ m}^3/\text{h}$ (8805 USgpm)

B07

Rating plate inscription in English

B11

Acceptance test B to DIN 50049, Section 3.1 and EN 10204

C12

Factory certificate to EN 10204-2.2

C14

Silicone-free materials

Y04

Measuring-point number (max. 16 char.), specify in plain text. Y15:....

Y15

Measuring-point description (max. 27 char.), specify in plain text. Y16:....

Y16

Stainless steel tag plate

Y17

Special design, specify quotation No./date in plain text

Y99

SITRANS F flowmeters

SITRANS F M

Transmitter Transmag 2 with sensor 911/E

Selection and Ordering data	Order No.	Order code
SITRANS F M 911/E flow sensor		
PTFE liner	7ME53	- 0 - 0 - 0
Nominal pressure		
PN 10 (MWP 145 psi)	1	
PN 16 (MWP 232 psi)	2	
PN 25 (MWP 363 psi)	3	
PN 40 (MWP 580 psi)	4	
Design		
Compact, alternating field from DN 65 (2½")	1	
Remote, alternating field	3	
Nominal diameter		
DN 25 (1")		C
DN 32 (1¼")		D
DN 40 (1½")		E
DN 50 (2")		F
DN 65 (2½")		G
DN 80 (3")		H
DN 100 (4")		J
DN 125 (5")		K
DN 150 (6")		L
DN 200 (8")		M
DN 250 (10")		N
DN 300 (12")		P
DN 350 (14")		Q
DN 400 (16")		R
DN 500 (20")		S
DN 600 (24")		T
Other nominal diameters: specify in plain text		Z
Connection flange		
DIN 2501/EN 1092-1, mat. No. 1.0460/1.0570 (mild steel)		A
DIN 2501/EN 1092-1, mat. No. 1.4571/316Ti		B
ANSI B 16.5 RF, mat. No. 1.0432/1.0570 (mild steel), to 10 bar (145 psi)		C
ANSI 300 RF, steel, to 20 bar (290 psi)		D
JIS 10 K, mat. No. 1.0570		E
Other connection form		Z
Electrode material		
Mat. No. 1.4571/316Ti		1
Hastelloy C4 (mat. No. 2.4610)		2
Titanium		3
Tantalum		4
Platinum head with shaft, mat. No. 1.4571/316Ti		7
Other materials: specify in plain text		9
		J 1 Y
		K 1 Y
		L 1 Y

Selection and Ordering data	Order No.	Order code
SITRANS F M 911/E flow sensor		
PTFE liner	7ME53	- 0 - 0 - 0
Protection washers, protection rings		
With protection washers (included as standard with PTFE, mat. No. 1.4571/316Ti)		1
With protection rings required for PN 16 (MWP 232 psi) and above, order as accessory)		2
With protection washers of other material (order as accessory)		3
Cable gland		
½" NPT		B
M16 x 1.5		C
Degree of protection		
IP67/NEMA4X		B
IP68/NEMA6, cable length 5 m (16.4 ft)		C
IP68/NEMA6, cable length 10 m (32.8 ft)		D
IP68/NEMA6, other cable lengths (order as accessory 7ME5930...)		E

Selection and Ordering data	Order Code
Additional information	
Please add "-Z" to Order No. and specify Order code(s) and plain text.	
One earthing (grounding) electrode made of mat No. 1.4571/316Ti up to DN 300 (12")	A01
Two earthing (grounding) electrodes made of mat. No. 1.4571/316Ti above DN 350 (14")	A02
One earthing (grounding) electrode made of Hastelloy C4/2.4610 up to DN 300 (12")	A03
Two earthing (grounding) electrodes made of Hastelloy C4/2.4610 above DN 350 (14")	A04
Replaceable electrodes above DN 100 (4"), replaceable under pressure	A06
With 3-point calibration certificate up to DN 600 (24") or Q _{max} > 2000 m ³ /h (8805 USgpm)	B06
With 6-point calibration certificate up to DN 600 (24") or Q _{max} > 2000 m ³ /h (8805 USgpm)	B07
Rating plate inscription in English	B11
Acceptance test B to DIN 50049, Section 3.1 and EN 10204	C12
Factory certificate to EN 10204-2.2	C14
Silicone-free materials	Y04
Measuring-point number (max. 16 char.), specify in plain text. Y15:....	Y15
Measuring-point description (max. 27 char.), specify in plain text. Y16:....	Y16
Stainless steel tag plate	Y17
Special design, specify quotation No./date in plain text	Y99

You can find accessories for SITRANS F M 911/E in the Online Catalog on the Internet at www.siemens.com/fi01.

SITRANS F flowmeters

SITRANS F M

Transmitter Transmag 2 with sensor 911/E

Selection and Ordering data	Order No.	Order code
SITRANS F M electromagnetic flowmeter		
Protection washers for flow sensor 911E (per pair)	7ME5922-	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Liner		
Hard rubber/soft rubber		1
PTFE		0
Nominal diameter		
<i>Material 1.4571/316 Ti</i>		
DN 15 (1/2")		AA
DN 20 (3/4")		BA
DN 25 (1")		CA
DN 32 (1 1/4")		DA
DN 40 (1 1/2")		EA
DN 50 (2")		FA
DN 65 (2 1/2")		GA
DN 80 (3")		HA
DN 100 (4")		JA
DN 125 (5")		KA
DN 150 (6")		LA
DN 200 (8")		MA
DN 250 (10")		NA
DN 300 (12")		PA
Other nominal diameters: specify in plain text		ZA J 1 Y
<i>Material Hastelloy C4/2.4610</i>		
DN 15 (1/2")		AB
DN 20 (3/4")		BB
DN 25 (1")		CB
DN 32 (1 1/4")		DB
DN 40 (1 1/2")		EB
DN 50 (2")		FB
DN 65 (2 1/2")		GB
DN 80 (3")		HB
DN 100 (4")		JB
DN 125 (5")		KB
DN 150 (6")		LB
DN 200 (8")		MB
DN 250 (10")		NB
DN 300 (12")		PB
Other nominal diameters: specify in plain text		ZB J 1 Y
Flange design		
Flange to DIN		1
Flange to ANSI		2
Flange to JIS		3

Selection and Ordering data	Order Code
Additional information	
Please add "-Z" to Order No. and specify Order code(s) and plain text.	
Special design, specify quotation No./date in plain text	Y99

Selection and Ordering data	Order No.	Order code
SITRANS F M electromagnetic flowmeter		
Protection rings for flow sensor 911E (per pair)	7ME5912-	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Liner		
Hard rubber/soft rubber		1
Novolak		7
PTFE		0
Nominal diameter		
<i>for PTFE, material 1.4571/316 Ti</i>		
DN 15 (1/2")		AA
DN 20 (3/4")		BA
DN 25 (1")		CA
DN 32 (1 1/4")		DA
DN 40 (1 1/2")		EA
DN 50 (2")		FA
DN 65 (2 1/2")		GA
DN 80 (3")		HA
DN 100 (4")		JA
DN 125 (5")		KA
DN 150 (6")		LA
DN 200 (8")		MA
DN 250 (10")		NA
DN 300 (12")		PA
Other nominal diameters: specify in plain text		ZA J 1 Y
<i>for Hard/Soft rubber, Novolak material 1.471/316 Ti</i>		
DN 15 (1/2")		AB
DN 20 (3/4")		BB
DN 25 (1")		CB
DN 32 (1 1/4")		DB
DN 40 (1 1/2")		EB
DN 50 (2")		FB
DN 65 (2 1/2")		GB
DN 80 (3")		HB
DN 100 (4")		JB
DN 125 (5")		KB
DN 150 (6")		LB
DN 200 (8")		MB
DN 250 (10")		NB
DN 300 (12")		PB
Other nominal diameters: specify in plain text		ZB J 1 Y
Flange design		
Flange to DIN		1
Flange to ANSI		2
Flange to JIS		3

Selection and Ordering data	Order code
Additional information	
Please add "-Z" to Order No. and specify Order code(s) and plain text.	
Tag plate of stainless steel	
• Y30 - tag number (max. 16 digits, specify in plain text)	Y17
• Special design, specify quotation No./date in plain text	Y99

SITRANS F flowmeters

SITRANS F M

Transmitter Transmag 2 with sensor 911/E

Selection and Ordering data	Order No.	Order code
SITRANS F M electromagnetic flowmeter		
Earthing rings for flow sensor 911E (per unit)	7ME5902 -	
Liner		
Hard rubber/soft rubber		1
Novolak		7
PTFE		0
Nominal diameter		
<i>Material 1.4571/316 Ti</i>		
DN 15 (1/2")		AA
DN 20 (3/4")		BA
DN 25 (1")		CA
DN 32 (1 1/4")		DA
DN 40 (1 1/2")		EA
DN 50 (2")		FA
DN 65 (2 1/2")		GA
DN 80 (3")		HA
DN 100 (4")		JA
DN 125 (5")		KA
DN 150 (6")		LA
DN 200 (8")		MA
DN 250 (10")		NA
DN 300 (12")		PA
DN 350 (14")		QA
DN 400 (16")		RA
DN 500 (20")		SA
DN 600 (24")		TA
DN 700 (28")		UA
DN 800 (32")		VA
DN 900 (36")		WA
DN 1000 (40")		XA
Other nominal diameters: specify in plain text		ZA
<i>Material Hastelloy C4/2.4610</i>		
DN 15 (1/2")		AB
DN 20 (3/4")		BB
DN 25 (1")		CB
DN 32 (1 1/4")		DB
DN 40 (1 1/2")		EB
DN 50 (2")		FB
DN 65 (2 1/2")		GB
DN 80 (3")		HB
DN 100 (4")		JB
DN 125 (5")		KB
DN 150 (6")		LB
DN 200 (8")		MB
DN 250 (10")		NB
DN 300 (12")		PB
DN 350 (14")		QB
DN 400 (16")		RB
DN 500 (20")		SB
DN 600 (24")		TB
Other nominal diameters: specify in plain text		ZB
Flange design		
Flange to DIN		1
Flange to ANSI		2
Flange to JIS		3

Selection and Ordering data	Order No.	Order code
SITRANS F M electromagnetic flowmeter		
Earthing rings for flow sensor 911E (per unit)	7ME5902 -	
Further design		
Please add "-Z" to Order No. and specify Order code(s).		
Special design, specify quotation No./date in plain text	Y99	

Selection and Ordering data	Order code
Additional information	
Please add "-Z" to Order No. and specify Order code(s) and plain text.	
Special design, specify quotation No./date in plain text	Y99

Selection and Ordering data	Order No.	Order code
SITRANS F M Transmag 2 and sensor 911/E	7ME5930 -	
Cable for remote versions		
• Without cable		0 A
• Suitable for sensor 911/E with alternating field, IP67 Magnet current cable 3 x 1.0 mm ² (3 x 0.0016 inch ²), electrode/reference cable 7x0,5 mm ² (7 x 0.0008 inch ²)		
- Length: 5 m (16.4 ft)	5 B	
- Length: 10 m (32.8 ft)	5 C	
- Specify other length: in plain text	5 Z	J 1 Y
Later 3-point calibration certificate for SITRANS F M		
• Without		A
• For SITRANS 911E up to DN 600, 24" (please specify Comm.-No. in plain text)		B

Selection and Ordering data	Order code
Additional information	
Please add "-Z" to Order No. and specify Order code(s) and plain text.	
Tag plate of stainless steel	
• Y30 - tag number (max. 16 digits, specify in plain text)	Y17
• Special design, specify quotation No./date in plain text	Y99

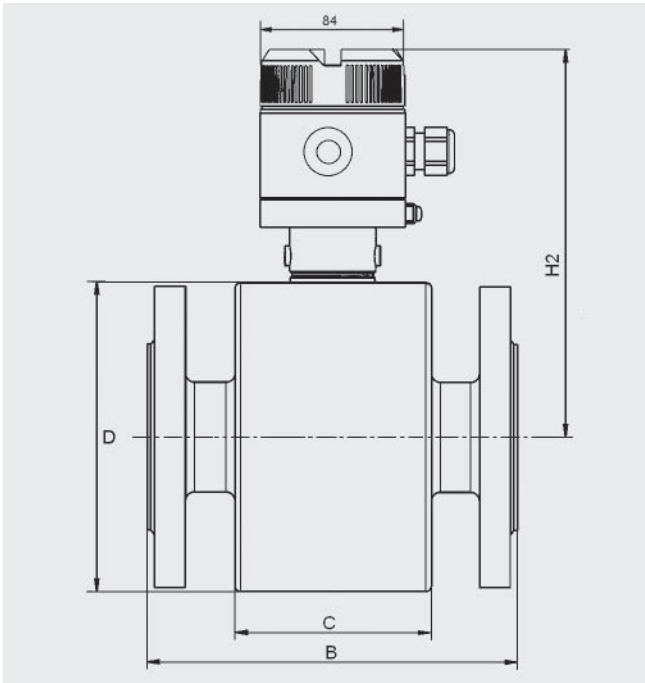
SITRANS F flowmeters

SITRANS F M

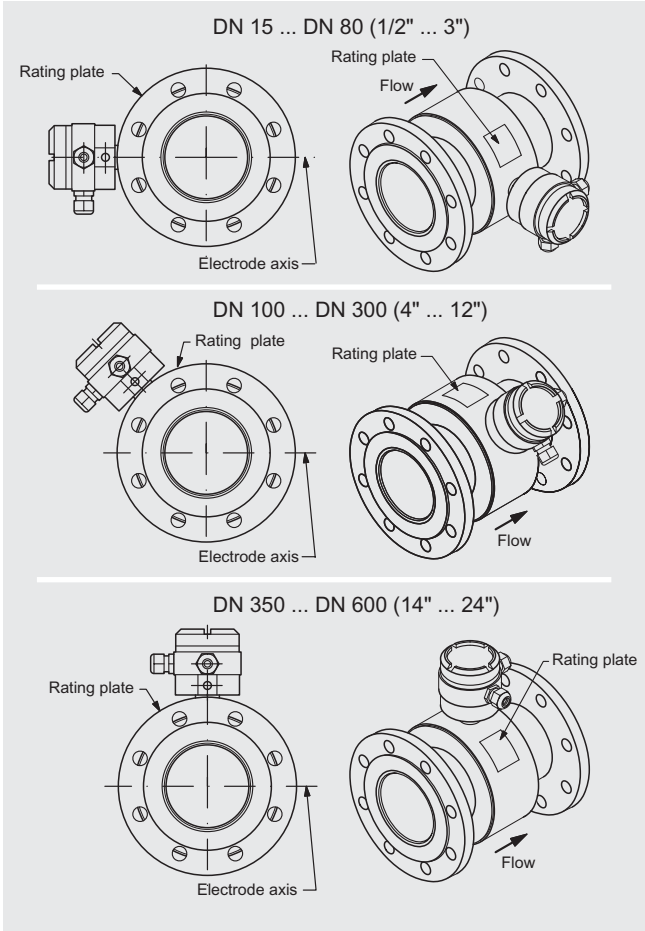
Transmitter Transmag 2 with sensor 911/E

Dimensional drawings

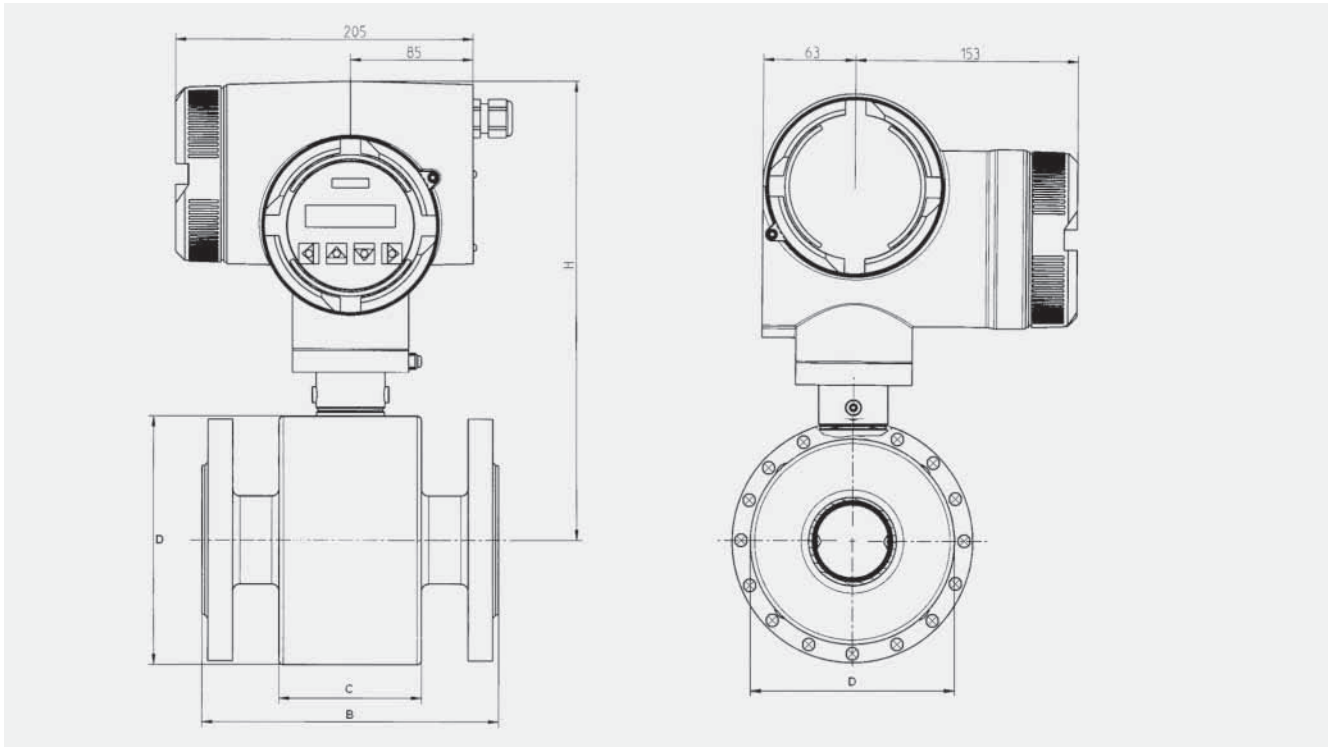
4



SITRANS F M flow sensor 911/E, remote version, dimensions in mm (inches)



Electrode placement



SITRANS F M flow sensor 911/E, compact version, dimensions in mm (inches)

Build-in-length 911/E [in mm and inches]

Nominal diameter	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300	DN 350	DN 400	DN 500	DN 600	
	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"	24"	
	Build-In-length B ¹⁾																		
Hard rubber version																			
Soft rubber / neopren version	270			280			330	340			370	410	470	500	550	600	650	780	
PTFE-liner without protection washers	(10.63)			(11.02)			(12.99)	(13.39)			(14.57)	(16.14)	(18.50)	(19.68)	(21.65)	(23.62)	(25.59)	(30.71)	
PTFE-liner with protection washers	270			280			330	340			370	410	470	500	550	600	650	780	
	(10.83)			(11.02)			(12.99)	(13.39)			(14.57)	(16.14)	(18.50)	(19.68)	(21.65)	(23.62)	(25.59)	(30.71)	
Novolak-version						275	325	335	333	362			401	460	489	538	588	638	772
						(10.83)	(12.79)	(13.19)	(13.11)	(14.25)			(15.79)	(18.11)	(19.25)	(21.18)	(23.15)	(25.12)	(30.39)
	Dimensions of sensor housing																		
Housing width C	170											240			306	360	412	552	
	(6.69)											(9.45)			(12.05)	(14.17)	(16.22)	(21.73)	
Height H with compact version	281					285	291	298	314	326	345	371	408	441	553	578	633	688	
	(11.06)					(11.22)	(11.46)	(11.73)	(12.36)	(12.83)	(13.58)	(14.61)	(16.06)	(17.36)	(21.77)	(22.76)	(24.92)	(27.09)	
Height H2 with remote version	175					180	187.5	195	215	230	252.5	285	330	370	347	372	424	477	
	(6.89)					(7.08)	(7.38)	(7.68)	(8.46)	(9.06)	(9.94)	(11.22)	(12.99)	(14.57)	(13.66)	(14.65)	(16.69)	(18.78)	
Housing diameter D	135			169		184	249	274		298	324	394	442	492	469	536	631	746	
	(5.315)			(6.654)		(7.244)	(9.803)	(10.79)		(11.73)	(12.76)	(15.51)	(17.40)	(19.37)	(18.46)	(21.10)	(24.84)	(29.37)	
Weight of PN10	8.0		8.5	11.0	11.5	25.0	26	28		34	38	68	80	90	110	150	210	370	
Version in kg	(17.6)		(18.7)	(24.3)	(25.4)	(55.1)	(57.3)	(61.7)		(75.0)	(83.8)	(149.9)	(176.4)	(198.4)	(242.5)	(330.7)	(463)	(860)	
Version in lb	(38.8)		(41.2)	(53.2)	(55.3)	(121.5)	(126.2)	(141.8)		(165.0)	(184.6)	(320.8)	(368.7)	(417.8)	(509.1)	(707.1)	(1018.3)	(1915.2)	

¹⁾ Tolerance for Build-In-length: B + 0.0 mm (0.00 inches) / - 4.0 mm (-0.157 inches).
With protection rings or washers for > DN25 + 6.0 mm, > DN200 + 10.0 mm (> 1" + 0.236 inches, > 8" + 0.394 inches)