

SITRANS F US SONOKIT 1-track sensor		7ME3210 -
Diameter	Qn setting [m³/h]	
DN 100 (4")	100	1 P
DN 125 (5")	150	1 T
DN 150 (6")	220	2 B
DN 200 (8")	380	2 F
DN 250 (10")	600	2 K
DN 300 (12")	850	2 P
DN 350 (14")	1000	2 T
DN 400 (16")	1300	3 B
DN 450 (18")	1700	3 F
DN 500 (20")	2200	3 K
DN 550 (22")	2600	3 P
DN 600 (24")	3200	3 T
DN 650 (26")	3600	4 B
DN 700 (28")	4200	4 F
DN 750 (30")	4800	4 K
DN 800 (32")	5500	4 P
DN 900 (36")	7500	5 B
DN 1000 (40")	9000	5 K
DN 1100 (44")	10000	5 P
DN 1200 (48")	13200	5 T
<u>Only for FUS060</u>		
DN 1300 (52")	14000	6 A
DN 1400 (56")	16800	6 C
DN 1500 (60")	19000	6 E
DN 1600 (64")	22800	6 G
DN 1700 (68")	25000	6 J
DN 1800 (72")	27600	6 L
DN 1900 (76")	31000	6 N
DN 2000 (80")	36000	6 Q
DN 2100 (84")	37000	6 S
DN 2200 (88")	42000	6 U
DN 2300 (92")	45000	6 W
DN 2400 (96")	51000	7 A

Installation method³⁾

Empty pipe (incl. transducer holder and mounting plates). Alignment rods and tools must be ordered as accessories.

Hot tap, mounting under pressure (mounting plates **not** incl.). Special mounting tools to be ordered separately.

SONOKIT for tapping band (DN 200 ... DN 1800) (transducer holder and mounting plates **not** incl., tapping band to be ordered separately)¹⁾

Transducer holder

None (for tapping band)

Carbon steel, length = 160 mm, mounting plates in carbon steel

Stainless steel, length = 160 mm, mounting plates in stainless steel

Stainless steel, length = 230 mm, for concrete pipe (DN 600 ... DN 2400)

Transducer type and approval

IP67 (NEMA 4X/6) PA housing, PN 40, O-ring, 100 °C (212 °F), no approval

IP68 SS housing, PN 40, O-ring, 180 °C (356 °F), Ex d, ATEX approval (only with standard FUS060)

IP68 PA housing, Sylgard potting kit, PN 40, O-ring, 100 °C (212 °F), no approval

SITRANS F US SONOKIT 1-track sensor		7ME3210 -
IP68 SS housing, Sylgard potting kit, PN 40, O-ring, 200 °C (392 °F), no approval		4
IP67 SS housing, PN 40, SS, O-ring, 190 °C (374 °F), Ex i type, ATEX approval (only with FUS060 Ex)		5
Cable gland entries		
Cable glands M20 in transducers and in transmitter M25/20/16 x 1.5 (FUS080 only M20)		1
Cable glands ½" NPT in transducers and in transmitter (only with FUS060)		2
Transmitter SITRANS FUS060 (only DN 100 ... 2400 (4" ... 96"))		
IP65 (NEMA 4), 120/230 V AC		N
IP65 (NEMA 4), 24 V AC/DC		P
IP65 (NEMA 4), 24 V AC/DC Ex version		Q
Transmitter SITRANS FUS080 (only DN 100 ... 1200 (4" ... 48"))		
PDM software tool and IrDA-adapter, which are needed for settings update, to be ordered separately, see FUS080 accessories		
IP67/NEMA 4X/6 115 ... 230 V AC		U
IP67/NEMA 4X/6 3.6 V battery version, incl. dual battery pack		V
IP67/NEMA 4X/6 115 ... 230 V AC, incl. 3.6 V single battery backup		W
IP67/NEMA 4X/6 3.6 V battery version (no battery pack included) ²⁾		X
Module		
No module (FUS080 only)		A
HART, 1 pulse output, 1 relay		B
HART Ex version, 1 pulse output, 1 relay		C
PROFIBUS PA, 1 pulse/frequency		D
PROFIBUS PA, Ex version, 1 pulse/frequency		E
Transducer coaxial cables (with FUS080 only, 15 and 30 m, 70°C (158 °F) cable types)		
2 x 3 m, max. 70 °C (158 °F), the only option for Ex i		0
2 x 15 m, max. 70 °C (158 °F)		1
2 x 30 m, high temp. max. 200 °C (392 °F)		2
2 x 30 m, max. 70 °C (158 °F)		3
2 x 60 m, max. 70 °C (158 °F)		4
2 x 90 m, max. 70 °C (158 °F)		5
2 x 120 m, max. 70 °C (158 °F)		6
2 x 3 m, high temp. max. 200 °C (392 °F), the only option for Ex i		7
2 x 15 m, high temp. max. 200 °C (392 °F)		8
Special version (add order code):		
No transducer cable, cable length 2 x 3 m, the only option for Ex i		9 R O A
No transducer cable, cable length 2 x 15 m		9 R O B
No transducer cable, cable length 2 x 30 m		9 R O C
No transducer cable, cable length 2 x 60 m		9 R O D
No transducer cable, cable length 2 x 90 m		9 R O E
No transducer cable, cable length 2 x 120 m		9 R O F

1) Tapping band via special request

2) Lithium batteries are subject to special transportation regulations according to United Nations "Regulation of Dangerous Goods, UN 3090 and UN 3091". Special transport documentation is required to observe these regulations. This may influence both transport time and costs."

3) Mounting tools must be ordered separately as *-Z"-options.

Selection and Ordering data

Order code

Additional information

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

Material certificate

EN 10204-3.1, transducer body material

F30

EN 10204-3.1, transducer holder material

F31

EN 10204-3.1, mounting plate material

F32Tag name plate

Stainless steel tag name plate, text length depends on font size: 8 mm up to 10 characters, 4 mm up to 20 characters, or 3 mm up to 30 characters (add plain text)

Y17Accessories

Alignment rods-set for DN 100 ... 650 (4" ... 26")
 Ø = 25 mm, L = 500 mm, 3 pcs.

S10

Alignment rods-set for DN 700 ... 1900 (28" ... 76")
 Ø = 25 mm, L = 500 mm, 6 pcs.

S11

Alignment rods-set for DN 2000 ... 2400 (80" ... 96")
 Ø = 25 mm, L = 500 mm, 8 pcs.

S12

Spanner key for transducer mounting type SONO 3200
 O-ring type

T11

Tool set with various mounting/spare parts for
 SONOKIT installation

T12

Please also see www.siemens.com/SITRANSFordering
 for practical examples of ordering.

Operating instructions

Description	Order No.
SITRANS FUS060	
• English	A5E01204521
• German	A5E02123845
SITRANS FUS080	
• English	A5E03059912
SITRANS F US SONOKIT 1-track	
• English	A5E00814557
• German	A5E02610428
• Spanish	A5E02608231
• French	A5E02610419

This device is shipped with a Quick Start guide and a CD containing further SITRANS F US literature.

All literature is also available for free at:

<http://www.siemens.com/flowdocumentation>



Please use online Product selector to get latest updates. Product selector link:

www.pia-selector.automation.siemens.com

Selection and Ordering data		Order No.	Ord. code	Selection and Ordering data		Order No.	Ord. code
SITRANS F US SONOKIT 2-track sensor		7 ME 3 2 2 0 -		SITRANS F US SONOKIT 2-track sensor		7 ME 3 2 2 0 -	
Diameter	Qn setting [m³/h]			Transducer holder			
DN 200 (8")	380	2 F		None (for tapping band)	0		
DN 250 (10")	600	2 K		Carbon steel, length = 160 mm, mounting plates in carbon steel	1		
DN 300 (12")	850	2 P		Stainless steel, length = 160 mm, mounting plates in stainless steel	2		
DN 350 (14")	1000	2 T		Stainless steel, length = 230 mm, for concrete pipe (DN 600 ... DN 4000)	3		
DN 400 (16")	1300	3 B		Transducer type and approval			
DN 450 (18")	1700	3 F		IP67 (NEMA 4X/6) PA housing, PN 40, O-ring, 100 °C (212 °F), no approval	1		
DN 500 (20")	2200	3 K		IP68 SS housing, PN 40, O-ring, 180 °C (356 °F), EEx d, ATEX approval (only with standard FUS060)	2		
DN 550 (22")	2600	3 P		IP68 PA housing, Sylgard potting kit, PN 40, SS, O-ring, 100 °C (212 °F), no approval	3		
DN 600 (24")	3200	3 T		IP68 SS housing, Sylgard potting kit, PN 40, SS, O-ring, 200 °C (392 °F), no approval	4		
DN 650 (26")	3600	4 B		IP67 SS housing, PN 40, O-ring, 190 °C (374 °F), EEx i, ATEX approval (only with FUS060 Ex)	5		
DN 700 (28")	4200	4 F		Cable gland entires			
DN 750 (30")	4800	4 K		Cable glands M20 in transducers and in transmitter M25/20/16 x 1.5 (FUS080 only M20)	1		
DN 800 (32")	5500	4 P		Cable glands ½" NPT in transducers and in transmitter (only with FUS060)	2		
DN 900 (36")	7500	5 B		Transmitter SITRANS FUS060 (only DN 200 ... 4000 (8" ... 160"))			
DN 1000 (40")	9000	5 K		IP65 (NEMA 4), 120/230 V AC			N
DN 1100 (44")	10 000	5 P		IP65 (NEMA 4), 24 V AC/DC			P
DN 1200 (48")	13 200	5 T		IP65 (NEMA 4), 24 V AC/DC Ex version			Q
<u>Only for FUS060</u>				Transmitter SITRANS FUS080 (only DN 200 ... 1200 (8" ... 48"))			
DN 1300 (52")	14 000	6 A		PDM software tool and IrDA-adaptor, which are needed for settings update, to be ordered separately, see FUS080 accessories			
DN 1400 (56")	16 800	6 C		IP67/NEMA 4X/6 115 ... 230 V AC			U
DN 1500 (60")	19 000	6 E		IP67/NEMA 4X/6 3.6 V battery version, incl. dual battery pack			V
DN 1600 (64")	22 800	6 G		IP67/NEMA 4X/6 115 ... 230 V AC, incl. 3.6 V single battery backup			W
DN 1700 (68")	25 000	6 J		IP67/NEMA 4X/6 3.6 V battery version (no battery pack included) ⁴⁾			X
DN 1800 (72")	27 600	6 L		Module			
DN 1900 (76")	31 000	6 N		No module (FUS080 only)			A
DN 2000 (80")	36 000	6 Q		HART, 1 pulse output, 1 relay			B
DN 2100 (84")	37 000	6 S		HART Ex version, 1 pulse output, 1 relay			C
DN 2200 (88")	42 000	6 U		PROFIBUS PA, 1 pulse/frequency			D
DN 2300 (92")	45 000	6 W		PROFIBUS PA, Ex version, 1 pulse/frequency			E
DN 2400 (96")	51 000	7 A					
DN 2500 (100")	53 000	7 C					
DN 2600 (104")	60 000	7 E					
DN 2700 (108")	62 000	7 G					
DN 2800 (112")	72 000	7 J					
DN 2900 (116")	71 000	7 L					
DN 3000 (120")	78 000	7 N					
DN 3100 (124")	82 000	7 Q					
DN 3200 (128")	85 000	7 S					
DN 3300 (132")	92 000	7 U					
DN 3400 (136")	100 000	7 W					
DN 3500 (140")	100 000	8 A					
DN 3600 (144")	110 000	8 C					
DN 3700 (148")	120 000	8 E					
DN 3800 (152")	130 000	8 G					
DN 3900 (156")	130 000	8 J					
DN 4000 (160")	144 000	8 L					
Installation method²⁾							
Empty pipe (incl. transducer holder and mounting plates). Alignment rods and tools must be ordered as accessories.		A					
Hot tap, mounting under pressure (mounting plates not incl.). Special mounting tools to be ordered separately.		B					
SONOKIT for tapping band (DN 200 ... DN 1800) (transducer holder and mounting plates not incl., tapping band to be ordered separately) ¹⁾		C					

¹⁾ Tapping band via special request

²⁾ Mounting tools must be ordered separately as "-Z" options

Selection and Ordering data Order No. Ord. code

SITRANS F US SONOKIT
2-track sensor **7 ME 3 2 2 0 -**

Transducer coaxial cables
(with FUS080 only, 15 and 30 m,
70°C (158 °F) cable types)

4 x 3 m, max. 70 °C (158 °F), the only option for Ex i	0	
4 x 15 m, max. 70 °C (158 °F)	1	
4 x 30 m, high temp. max. 200 °C (392 °F)	2	
4 x 30 m, max. 70 °C (158 °F)	3	
4 x 60 m, max. 70 °C (158 °F) (up to DN 3000)	4	
4 x 90 m, max. 70 °C (158 °F) (up to DN 3000)	5	
4 x 120 m, max. 70 °C (158 °F) (up to DN 3000)	6	
4 x 3 m, high temp. max. 200 °C (392 °F), the only option for Ex i	7	
4 x 15 m, high temp. max. 200 °C (392 °F)	8	
Special version (add order code):		
No transducer cable, cable length 4 x 3 m, the only option for Ex i	9	R 0 A
No transducer cable, cable length 4 x 15 m	9	R 0 B
No transducer cable, cable length 4 x 30 m	9	R 0 C
No transducer cable, cable length 4 x 60 m (up to DN 3000)	9	R 0 D
No transducer cable, cable length 4 x 90 m (up to DN 3000)	9	R 0 E
No transducer cable, cable length 4 x 120 m (up to DN 3000)	9	R 0 F

Selection and Ordering data Order code

Additional information
Please add „-Z” to Order No. and specify Order code(s) and plain text.

Material certificate
EN 10204-3.1, transducer body material **F30**
EN 10204-3.1, transducer holder material **F31**
EN 10204-3.1, mounting plate material **F32**

Tag name plate
Stainless steel tag name plate, text length depends on font size: 8 mm up to 10 characters, 4 mm up to 20 characters, or 3 mm up to 30 characters (add plain text) **Y17**

Accessories
Alignment rods-set for DN 100 ... 750 (4" ... 30")
Ø = 25 mm, L = 500 mm, 3 pcs. **S10**
Alignment rods-set for DN 800 ... 2100 (32" ... 84")
Ø = 25 mm, L = 500 mm, 6 pcs. **S11**
Alignment rods-set for DN 2200 ... 4000 (88" ... 160")
Ø = 25 mm, L = 500 mm, 8 or 10 pcs. **S12**
Spanner key for transducer mounting type
SONO 3200 O-ring type **T11**
Tool set with various mounting/spare parts for
SONOKIT installation **T12**

Please also see www.siemens.com/SITRANSOrdering for practical examples of ordering.

Operating instructions

Description	Order No.
SITRANS FUS060	
• English	A5E01204521
• German	A5E02123845
SITRANS FUS080	
• English	A5E03059912
SITRANS F US SONOKIT 2-track	
• English	A5E02445496
• German	A5E02554972
• Spanish	A5E02555037
• French	A5E02555044
• Czech	A5E02814192

This device is shipped with a Quick Start guide and a CD containing further SITRANS F US literature.

All literature is also available for free at:
<http://www.siemens.com/flowdocumentation>



Please use online Product selector to get latest updates. Product selector link:
www.pia-selector.automation.siemens.com