Selection and Ordering data		Order-No.	Ord. code
SITRANS FUS1020 Basic clamp-on, IP65 (NEMA 4)	A)	**7ME3570-**	0 0 - 0
Number of channels/ultrasonic beams			
Single channel	◆	1	
Dual channel / Dual beam		2	
Flowmeter functions and I/O configurations			
• Blind system - 1x 4 ... 20 mA **per channel** - 1x pulse out (for single channel only)		A	
• With display	◆	E	
• With display and 1x additional analog output (single channel only)		F	
• With display and with SPST relay		G	
• With display and 1x additional analog output and SPST relay (single channel only)		H	
Meter power options			
90 ... 240 V AC		A	
9 ... 36 V DC		B	
Transducer for channel 1 (includes pipe mounting kit for indicated max. outer diameter listed) See „Transducer selection charts“ for specifications.			
no transducer			A
A2 universal to 3“/track mounting			B
B3 universal to 5“/track mounting	◆		C
C3 universal to 13“/mounting frame	◆		D
D3 universal to 24“/mounting frame	◆		E
E2 universal to 48“/mounting frame	◆		F
A1H (high precision) to 3“/trackless mount.			G
A2H (high precision) to 3“/trackless mount.			H
A3H (high precision) to 3“/trackless mount.			J
B1H (high precision) to 5“/trackless mount.			K
B2H (high precision) to 5“/trackless mount.	◆		L
C1H (high precision) to 24“/trackless mount.			M
C2H (high precision) to 24“/trackless mount.	◆		N
D1H (high precision) to 48“/trackless mount.	◆		P
D2H (high precision) to 48“/trackless mount.			Q
Other versions (different size, mount, type or pipe larger than DN 1200 (48“), or corrosion resistant), add Order Code and plain text.			Z P 1 Y
High temperature transducer size 2 for up to 230 °C (446 °F) (30 to 200 mm diam. (1.18 to 7.67 inch diam.))			Z P 1 A
High temperature transducer size 3 for up to 230 °C (446 °F) (150 to 610 mm diam. (5.90 to 24 inch diam.))			Z P 1 B
High temperature transducer size 4 for up to 230 °C (446 °F) (400 to 1200 mm diam. (15.75 to 47.25 inch diam.))			Z P 1 C

Selection and Ordering data		Order-No.	Ord. code
SITRANS FUS1020 Basic clamp-on, IP65 (NEMA 4)	A)	**7ME3570-**	0 0 - 0
Transducer for channel 2 (includes pipe mounting kit for indicated max. outer diameter listed) See „Transducer selection charts“ for specifications.			
no transducer			A
A2 universal to 3“/track mounting			B
B3 universal to 5“/track mounting	◆		C
C3 universal to 13“/mounting frame	◆		D
D3 universal to 24“/mounting frame	◆		E
E2 universal to 48“/mounting frame	◆		F
A1H (high precision) to 3“/trackless mount.			G
A2H (high precision) to 3“/trackless mount.			H
A3H (high precision) to 3“/trackless mount.			J
B1H (high precision) to 5“/trackless mount.			K
B2H (high precision) to 5“/trackless mount.	◆		L
C1H (high precision) to 24“/trackless mount.			M
C2H (high precision) to 24“/trackless mount.	◆		N
D1H (high precision) to 48“/trackless mount.	◆		P
D2H (high precision) to 48“/trackless mount.			Q
Other versions (different size, mount, type or pipe larger than DN 1200 (48“), or corrosion resistant), add Order Code and plain text.			Z Q 1 Y
High temperature transducer size 2 for up to 230 °C (446 °F) (30 to 200 mm diam. (1.18 to 7.67 inch diam.))			Z Q 1 A
High temperature transducer size 3 for up to 230 °C (446 °F) (150 to 610 mm diam. (5.90 to 24 inch diam.))			Z Q 1 B
High temperature transducer size 4 for up to 230 °C (446 °F) (400 to 1200 mm diam. (15.75 to 47.25 inch diam.))			Z Q 1 C
Approvals			
no approval options (UL, ULc, CE by default)			0

Selection and Ordering data		Order code
Further designs Please add „-Z“ to Order No. and specify Order code(s).		
Cable assembly for transducers (add for # of channels) See „Transducer cable selection chart“		**K..**
Cable termination kit (for one cable pair) • Transducer cable termination for standard and plenum cable		**T01**
Languages (Meter, Labels and Documentation), English (default)		
• German	▶	**B10**
• French		**B12**
• Spanish		**B13**
• Italian		**B14**
Wet flow transfer calibration • Standard In-house 6 point calibration (up to DN 150 (6“)) available		**D10**
Tag name plate		
• Stainless steel tags with 3.2 mm (0.13 inch) character size (26 characters max.)		**Y17**
• Stainless steel tags with 3.2 mm (0.13 inch) character size (68 characters max.)		**Y19**

◆ Mainstream products (delivery time 4 to 6 weeks)

A) Subject to export regulations AL: 9I999, ECCN: EAR99H.

MLFB example

Application example

A basic clamp-on meter is required for a DN 150 (6“ schedule 40) carbon steel waste water line, with a pipe wall thickness of 7.1 mm (0.28“). Meter electronics is to be located in an instrumentation shed with available AC power. 36 m (120 ft) of transducer cable is needed to reach pipe location.

Single beam is sufficient for 3% accuracy requirement and a local display with only one 4 ... 20 mA analog output is specified.

MLFB Order No.: **7ME3570-1EA00-0NA0-Z**
K04

Selection and Ordering data	Order-No.	Ord. code
FUS1020 meter family	7 ME 3 5 7 - ■■■ 0 0 - 0 ■■ 0	■■■
IP65 (NEMA 4) enclosure	0	
Single channel	1	
Standard I/O option	E	
90 ... 240 V AC power option	A	
Transducer code for channel 1		N
Second transducer not required		A
46 m (150 ft) transducer cable			K 0 4

Transducer selection charts

Universal transducers for any pipe material

Transducer type (universal)	**Order Code**	**Outer diameter range (mm)**		**Outer diameter range (inches)**	
		min.	**max.**	**min.**	**max.**
A2	**B**	12.7	50.8	0.5	2
B3	**C**	19	127	0.75	5
C3	**D**	51	305	2	12
D3	**E**	203	610	8	24
E2	**F**	254	6096	10	249

High precision transducers for steel pipe with outer diameter/wall thickness ratio > 10

Transducer type (high precision)	**Order Code**	**Pipe Wall (mm)**		**Pipe Wall (inches)**	
		min.	**max.**	**min.**	**max.**
A1H	**G**	0.64	1.02	0.025	0.04
A2H	**H**	1.02	1.52	0.04	0.06
A3H	**J**	1.52	2.03	0.06	0.08
B1H	**K**	2.03	3.05	0.08	0.12
B2H	**L**	3.05	4.06	0.12	0.16
C1H	**M**	4.06	5.84	0.16	0.23
C2H	**N**	5.84	8.13	0.23	0.32
D1H	**P**	8.13	11.18	0.32	0.44
D2H	**Q**	11.18	15.75	0.44	0.62

Transducer cable selection chart

Transducer cable codes for length and type options

Cable length m (ft)	Standard (PVC jacket) -40 ... + 80 °C (-40 ... +176 °F)	Plenum rated (Teflon jacket) -40 ... + 200 °C (-40 ... +392 °F)
	Order Code	
6 (20)	**K01**	**K21**
15 (50)	**K02**	**K22**
30 (100)	**K03**	**K23**
46 (150)	**K04**	**K24**
61 (200)	**K05**	**K25**
91 (300)	**K06**	**K26**