

Selection and Ordering data	Order-No.	Ord. code	Selection and Ordering data	Order-No.	Ord. code
SITRANS FUG1010 Gas meter clamp-on			SITRANS FUG1010 Gas meter clamp-on		
• IP65 (NEMA 4X)	F)	7ME3610-	• IP65 (NEMA 4X)	F)	7ME3610-
• IP65 (NEMA 7) compact	F)	7ME3611-	• IP65 (NEMA 7) compact	F)	7ME3611-
• IP66 (NEMA 7) wall mounted	F)	7ME3612-	• IP66 (NEMA 7) wall mounted	F)	7ME3612-
• IP66 (NEMA 7) wall mounted with display window	F)	7ME3613-	• IP66 (NEMA 7) wall mounted with display window	F)	7ME3613-
	0 -			0 -	
Number of channels/ultrasonic beams			Transducer for channel 1 (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See „Transducer selection chart“ for specifications.		
Single beam	1		no transducer		A
Dual beam	◆ 2		B1H (high precision) to 5"/track mount		K
Special: Four beam (NEMA 4X and NEMA 7 wall mount only)	9	H 1 A	B2H (high precision) to 5"/track mount		L
Flowmeter functions and I/O configurations (includes graphic or digital display)			B3H (high precision) to 5"/track mount		T
<u>IP65 (NEMA 4X) and IP66 (NEMA 7 wall mounted) units</u>			C1H (high precision) to 24"/mounting frame		M
• Standard (all but Compact NEMA 7)	A		C2H (high precision) to 24"/mounting frame	◆	N
- Graphic display			D1H (high precision) to 48"/mounting frame	◆	P
- 4x 4 ... 20 mA analog input			D2H (high precision) to 48"/mounting frame	◆	Q
- 2x 0 ... 10 V			D3H (high precision) to 48"/mounting frame		U
- 2x 4 ... 20 mA analog output			D4H (high precision) to 48"/mounting frame	◆	R
- 2x pulse output			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
- 4x relay C type			High temperature range HP transducer size B1H for temperatures up to 104 °C (220 °F)	Z	P 1 K
- 2x RTD input			High temperature range HP transducer size B2H for temperatures up to 104 °C (220 °F)	Z	P 1 L
• Enhanced I/O option	◆ B		High temperature range HP transducer size B3H for temperatures up to 104 °C (220 °F)	Z	P 1 T
- additional 2x 4 ... 20 mA			High temperature range HP transducer size C1H for temperatures up to 104 °C (220 °F)	Z	P 1 M
- Mercury wetted relays			High temperature range HP transducer size C2H for temperatures up to 104 °C (220 °F)	Z	P 1 N
- 4x digital pulse outputs (2x open collector and 2x 0 ... 5 V TTL)			High temperature range HP transducer size D1H for temperatures up to 104 °C (220 °F)	Z	P 1 P
<u>IP65 (NEMA 7) compact units</u>			High temperature range HP transducer size D2H for temperatures up to 104 °C (220 °F)	Z	P 1 Q
• Standard	D		High temperature range HP transducer size D3H for temperatures up to 104 °C (220 °F)	Z	P 1 U
- Digital display			High temperature range HP transducer size D4H for temperatures up to 104 °C (220 °F)	Z	P 1 R
- 2x 4 ... 20 mA (loop)			Transducer for channel 2 (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See „Transducer selection chart“ for specifications.		
- 2x 4 ... 20 mA analog input			no transducer		A
- 2x status (open collector)			B1H (high precision) to 5"/track mount		K
- 1x RTD input			B2H (high precision) to 5"/track mount		L
• Digital pulse option	E		B3H (high precision) to 5"/track mount		T
1x digital pulse open collector output			C1H (high precision) to 24"/mounting frame		M
• Mercury wetted relays for standard meter	Z	J 1 A	C2H (high precision) to 24"/mounting frame	◆	N
• Dry contact form C relays for enhanced I/O meter	Z	J 1 D	D1H (high precision) to 48"/mounting frame	◆	P
Meter power options			D2H (high precision) to 48"/mounting frame	◆	Q
90 ... 240 V AC	A		D3H (high precision) to 48"/mounting frame		U
9 ... 36 V DC (except compact NEMA 7)	B		D4H (high precision) to 48"/mounting frame	◆	R
9 ... 36 V DC negative GND (Compact only)	J		◆ Mainstream products (delivery time 4 to 6 weeks)		
9 ... 36 V DC positive GND (Compact only)	K				
Communication options					
RS232 (standard)	◆ 0				
MODBUS (excludes NEMA 7 Compact)	1				
Ethernet (excludes NEMA 7 Compact)	2				
Special: Dial up Modem (excludes compact NEMA 7), specify text	9	L 1 Y			
Max 9600 Baud dial up modem	9	L 1 A			
RTD temperature sensor (includes mounting hardware for pipes above 1.5" outer diameter)					
No RTDs		0			
1x standard clamp-on RTD	◆ 1				
2x standard clamp-on RTD		2			
1x submersible clamp-on RTD	◆ 3				
2x submersible clamp-on RTD		4			
Special (for insert style RTDs)		9			N 1 Y

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• IP65 (NEMA 4X)	F)	7ME3610-
• IP65 (NEMA 7) compact	F)	7ME3611-
• IP66 (NEMA 7) wall mounted	F)	7ME3612-
• IP66 (NEMA 7) wall mounted with display window	F)	7ME3613-
		
Transducer for channel 2 (continued)		
Other versions (different size, mount, type or pipe larger than DN 1200 (48") or corrosion resistant), add Order code and plain text.	Z	Q1 Y
High temperature range HP transducer size B1H for temperatures up to 104 °C (220 °F)	Z	Q1 K
High temperature range HP transducer size B2H for temperatures up to 104 °C (220 °F)	Z	Q1 L
High temperature range HP transducer size B3H for temperatures up to 104 °C (220 °F)	Z	Q1 T
High temperature range HP transducer size C1H for temperatures up to 104 °C (220 °F)	Z	Q1 M
High temperature range HP transducer size C2H for temperatures up to 104 °C (220 °F)	Z	Q1 N
High temperature range HP transducer size D1H for temperatures up to 104 °C (220 °F)	Z	Q1 P
High temperature range HP transducer size D2H for temperatures up to 104 °C (220 °F)	Z	Q1 Q
High temperature range HP transducer size D3H for temperatures up to 104 °C (220 °F)	Z	Q1 U
High temperature range HP transducer size D4H for temperatures up to 104 °C (220 °F)	Z	Q1 R
Approvals		
FM/CSA (default)	◆	1
ATEX		2
INMETRO (Brazil)		3
Special ATEX EEx m		9
Add Order code and plain text:		R 1 Y
Length of integral cable:		

◆ Mainstream products (delivery time 4 to 6 weeks)

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 beams) See „Transducer cable selection chart“	K..
Cable assembly for RTDs (add for # of RTDs) See „RTD cable selection chart“	R..
Cable termination kit (for one cable pair)	
• Termination for standard, plenum and armored transducer cable	T01
• Termination for submersible transducer cable	T11
• RTD cable termination kit for standard RTD	T21
• RTD cable termination kit for submersible RTD	T31
• Insert RTD cable termination kit	T41
Languages (Meter, Labels and Documentation)	
• German	B10
• French	B12
• Spanish	B13
• Italian	B14
Tag name plate	
• Stainless steel tags with 3.2 mm (0.13 inch) characters (26 characters max.)	Y17
• Stainless steel tags with 3.2 mm (0.13 inch) characters (68 characters max.)	Y19

MLFB example

Application example

A clamp-on meter is required for a 300 mm (12") carbon steel gas line with a wall thickness of 12.7 mm (0.5"). Meter electronics is to be located in a Class I Div 2 area only 18 m (60 ft) from the pipeline. 12 V DC power is available at the site.

Dual beam operation is desired for improved accuracy and redundant measurement. Pulse output will be primary flow data source.

MLFB Order No.: **7ME3610-2BB00-0QQ1-Z**
K03 + K03

Selection and Ordering data	Order-No.	Ord. code
FUG1010 meter family	7 ME 3 6 1	-
IP65 (NEMA 4X) enclosure		0
Dual beam		2
Custody Transfer option with digital pulse		B
9 ... 36 V DC power option		B
RS232 Standard		0
No RTD required		0
Transducer code for path 1		Q
Transducer code for path 2		Q
FM approval required		1
30 m (100 ft) transducer cable for path 1		K 0 3
30 m (100 ft) transducer cable for path 2		K 0 3

Transducer Selection Chart

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

Transducer	Order Code	Pipe wall (mm)		Pipe wall (inches)	
		min.	max.	min.	max.
B1H	K	2.0	3.0	0.08	0.12
B2H	L	3.0	4.1	0.12	0.16
B3H	T	2.7	3.3	0.106	0.128
C1H	M	4.1	5.8	0.16	0.23
C2H	N	5.8	8.1	0.23	0.32
D1H	P	8.1	11.2	0.32	0.44
D2H	Q	11.2	15.7	0.44	0.62
D3H	U	7.4	9.0	0.293	0.354
D4H	R	15.7	31.8	0.62	1.25

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)	Submersible (polyethylene jacket) -40...+80 °C (-40...+176 °F)	Plenum Rated (teflon jacket) -40...+200 °C (-40...+392 °F)	Armored -40...+80 °C (-40...+176 °F)
	Order code			
6 (20)	K01	K11	K21	K31
15 (50)	K02	K12	K22	K32
30 (100)	K03	K13	K23	K33
46 (150)	K04	K14	K24	K34
61 (200)	K05	K15	K25	K35
91 (300)	K06	K16	K26	K36

RTD Cable Selection Chart

RTD cable codes for length and type		
Cable length m (ft)	Standard (teflon wrapped) -40 ... +200 °C (-40 ... +392 °F)	Submersible (extruded jacket) -40 ... +200 °C (-40 ... +392 °F)
	Order code	
6 (20)	R01	R11
15 (50)	R02	R12
30 (100)	R03	R13
46 (150)	R04	R14
61 (200)	R05	R15
91 (300)	R06	R16