

Selection and Ordering data	Order-No.	Ord. code
SITRANS FUH1010 Oil clamp-on		
• IP65 (NEMA 4X)	F) ◆	7ME3600-
• IP65 (NEMA 7) compact	F)	7ME3601-
• IP66 (NEMA 7) wall mounted (no display window)	F)	7ME3602-
• IP66 (NEMA 7) wall mounted (with display window)	F)	7ME3603-
	0 -	
Number of ultrasonic beams / meter type		
Single beam (precision volume)	0	
Single beam (interface detector)	1	
Dual channel/Dual beam (interface detector)	2	
Dual beam (precision volume)	◆ 3	
Dual beam (standard volume / mass)	4	
Special: Four beam (standard volume/mass) only	9	H 1 A
Flowmeter functions and I/O configurations		
Includes graphic or digital display		
<u>IP65 (NEMA 4X) and IP66 (NEMA 7 wall mounted) units</u>		
• Standard	◆ A	
- Graphic display		
- 4x 4 ... 20 mA analog input		
- 2x 0 ... 10 V		
- 2x 4 ... 20 mA analog output		
- 2x pulse output		
- 4x Mercury wetted relays (form C for interface detector)		
- 2x RTD input		
• Enhanced I/O option	C	
- additional 2x 4 ... 20 mA outputs		
- Form C relays		
- 4x digital pulse outputs (2x open collector and 2x 0 ... 5 V TTL)		
<u>IP65 (NEMA 7) compact units</u>		
• Standard	D	
- Digital display		
- 2x 4 ... 20 mA (Loop)		
- 2x 4 ... 20 mA analog input		
- 2x status (open collector)		
- 1x RTD input		
• Digital pulse option	F	
- 1x digital pulse open collector output		
- 2x 4 ... 20 mA (Loop)		
- 2x 4 ... 20 mA analog input		
- 1x status (open collector)		
- 1x RTD input		
• Other version (Expanded I/O for non-custody meters or dry contact relays for custody) Add order code and plain text.	Z	J 1 Y
• Other version (Mercury wetted or dry contact relays) Add order code and plain text.		
- Dry contact form C relays for standard meter	Z	J 1 A
- Mercury wetted relays for enhanced I/O meters	Z	J 1 D
Meter power options		
90 ... 240 V AC	◆ A	
9 ... 36 V DC (except compact NEMA 7)	B	
9 ... 36 V DC negative GND (compact only)	J	
9 ... 36 V DC positive GND (compact only)	K	
Communication options		
RS232 (standard)	◆	0
MODBUS (excludes NEMA 7 compact)		1

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RTD temperature sensor		
(includes mounting hardware for pipes above 1.5" OD)		
No RTDs (Note: temperature input is required for FUH systems)	◆	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
Transducer for channel/beam 1		
(includes standard pipe mounting kit and spacer bar for indicated max. outer diameter listed)		
See „Transducer selection charts“ for specifications		
no transducer	◆	A
A1H (high precision) to 3"/track mount		G
A2H (high precision) to 3"/track mount		H
A3H (high precision) to 3"/track mount		J
B1H (high precision) to 5"/track mount		K
B2H (high precision) to 5"/track mount		L
B3H (high precision) to 5"/track mount		T
C1H (high precision) to 24"/mounting frame	◆	M
C2H (high precision) to 24"/mounting frame	◆	N
D1H (high precision) to 48"/mounting frame	◆	P
D2H (high precision) to 48"/mounting frame	◆	Q
D3H (high precision) to 48"/mounting frame		U
D4H (high precision) to 48"/mounting frame		R
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 range HP transducer size B1H for temperatures up to 104 °C (220 °F)		Z P 1 K
High temperature range HP transducer size B2H for temperatures up to 104 °C (220 °F)		Z P 1 L
High temperature range HP transducer size B3H for temperatures up to 104 °C (220 °F)		Z P 1 T
High temperature range HP transducer size C1H for temperatures up to 104 °C (220 °F)		Z P 1 M
High temperature range HP transducer size C2H for temperatures up to 104 °C (220 °F)		Z P 1 N
High temperature range HP transducer size D1H for temperatures up to 104 °C (220 °F)		Z P 1 P
High temperature range HP transducer size D2H for temperatures up to 104 °C (220 °F)		Z P 1 Q
High temperature range HP transducer size D3H for temperatures up to 104 °C (220 °F)		Z P 1 U
High temperature range HP transducer size D4H for temperatures up to 104 °C (220 °F)		Z P 1 R
◆ Mainstream products (delivery time 4 to 6 weeks)		

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		0 -

Transducer for channel/beam 2 (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See „Transducer selection charts“ for specifications		
no transducer	◆	A
A1H (high precision) to 3"/track mount		G
A2H (high precision) to 3"/track mount		H
A3H (high precision) to 3"/track mount		J
B1H (high precision) to 5"/track mount		K
B2H (high precision) to 5"/track mount		L
B3H (high precision) to 5"/track mount		T
C1H (high precision) to 24"/mounting frame	◆	M
C2H (high precision) to 24"/mounting frame	◆	N
D1H (high precision) to 48"/mounting frame	◆	P
D2H (high precision) to 48"/mounting frame	◆	Q
D3H (high precision) to 48"/mounting frame		U
D4H (high precision) to 48"/mounting frame		R
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), also for non hazardous area	◆	1
ATEX		2
INMETRO (Brazil)		3
Special ATEX EEx m add Order code and plain text: Length of integral cable:		9 R1 Y

◆ 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 cable	T11
• RTD cable termination kit for standard RTD	T21
• RTD cable termination kit for submersible RTD	T31
Languages (Meter, Labels and Documentation), English (default)	
• 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 12" carbon steel hydrocarbon line flowing multiple products, with a wall thickness of 12.7 mm (0.5"). Meter electronics is to be located in a Class I Div 2 area only 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.: **7ME3600-3CB00-3QQ1-Z**
K03 + K03 + R03

Selection and Ordering data	Order-No.	Ord. code
FUH1010 meter family		
IP65 (NEMA 4X) enclosure	7 ME 3 6 0 -	0 -
Dual beam precision volume		3
Custody Transfer option with digital pulse		C
9 ... 36 V DC power option		B
RS232 Standard		0
RTD required for viscosity comp		3
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
30 m (100 ft) cable for RTD		R 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)	
Size code		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
D4H	R	15.75	31.75	0.62	1.25
B3H	T	2.7	3.3	0.106	0.128
D3H	U	7.4	9.0	0.293	0.354

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