

Selection and Ordering data		Order-No.	Ord. code
SITRANS FUP1010 Portable clamp-on			
• IP67 weather proof battery powered	F) ◆	7ME3510-	
• IP40 (NEMA 1) battery powered	F) ◆	7ME3511-	
		■ ■ ■ ■ - 0 ■ ■ 0 ■ ■ ■	
Number of channels/ultrasonic beams			
Single channel	◆	1	
Dual channel / Dual beam		2	
Standard flowmeter types and I/O configurations			
• Type 1 Standard	◆	A	
- Reflexor capable			
- Graphic display			
- 2x 0 ... 10 V			
- 2x 4 ... 20 mA			
- 2x pulse outputs			
- 4x status logic			
• Type 3 option adder		C	
- 2x 4 ... 20 mA analog in			
- 2x RTD			
Transducer cables (select proper quantity for active channels)			
no transducer cable		A	
1x Plenum rated, length 6 m (20 ft) (for NEMA 6) ¹⁾		B	
2x Plenum rated, length 6 m (20 ft) (for NEMA 6) ¹⁾		C	
1x Plenum rated, length 15 m (50 ft) (for NEMA 6) ¹⁾		D	
2x Plenum rated, length 15 m (50 ft) (for NEMA 6) ¹⁾		E	
1x PVC jacket, length 6 m (20 ft) (for NEMA 12) ²⁾	◆	F	
2x PVC jacket, length 6 m (20 ft) (for NEMA 12) ²⁾		G	
1x PVC jacket, length 15 m (50 ft) (for NEMA 12) ²⁾	◆	H	
2x PVC jacket, length 15 m (50 ft) (for NEMA 12) ²⁾		J	
Other versions add Order code and plain text.		Z	K 1 Y
RTD temperature sensor (for type 3 meter only, mounting hardware and cable included)			
No RTDs		0	
1x standard clamp-on RTD (NEMA 12) with 6 m (20 ft) cable ¹⁾		1	
2x standard clamp-on RTD (NEMA 12) with 6 m (20 ft) cable ¹⁾		2	
1x standard clamp-on RTD (NEMA 12) with 15 m (50 ft) cable ¹⁾		3	
2x standard clamp-on RTD (NEMA 12) with 15 m (50 ft) cable ¹⁾		4	
1x standard clamp-on RTD (NEMA 6) with 6 m (20 ft) cable ¹⁾		5	
2x standard clamp-on RTD (NEMA 6) with 6 m (20 ft) cable ¹⁾		6	
1x standard clamp-on RTD (NEMA 6) with 15 m (50 ft) cable ¹⁾		7	
2x standard clamp-on RTD (NEMA 6) with 15 m (50 ft) cable ¹⁾		8	
Other versions add Order code and plain text.		9	L 1 Y

Approvals: No options (UL, ULc, CE by default)

¹⁾ -40 ... +200 °C (-40 ... +392 °F)

²⁾ -40 ... +80 °C (-40 ... +176 °F)

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Battery charger options			
no battery charger		0	
Charger Type A for Europe (CEE7/7)	◆	1	
Charger Type C for Australia (AS3112)		2	
Charger Type D for U.K. (BS1363)		3	
Charger Type J for Japan (JIS8303)		4	
Charger Type K for U.S. (NEMA 5-15P)	◆	5	
Charger Type L for Switzerland (SEV1011)		6	
Special: External battery for extended service, add Order code and plain text.		9	M 1 Y
External 4 hours battery with US plug for IP40 (NEMA 12) Portable		9	M 1 A
External 4 hours battery with US plug for IP67 (NEMA 6) Portable		9	M 1 B
External 4 hours battery with European plug for IP40 (NEMA 1) Portable		9	M 1 C
External 4 hours battery with European plug for IP67 Portable		9	M 1 D
Transducer for channel 1 (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See „Transducer selection charts“ for specifications.			
no transducer			A
A2 universal to 3"/track mount			B
B3 universal to 5"/track mount	◆		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"/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
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
D4H (high precision) to 48"/mounting frame			R
Doppler to 12" with chain kit			S
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
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 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
◆ Mainstream products (delivery time 4 to 6 weeks)			

F) Subject to export regulations AL: 9I999, ECCN: N.

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		■ ■ ■ ■ ■ - 0 ■ ■ 0 ■ ■ ■ ■ ■	
Transducer for channel 1 (continued)			
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 D4H for temperatures up to 104 °C (220 °F)		Z	P 1 R
Transducer for channel 2 (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See „Transducer selection charts“ for specifications.			
no transducer		A	
A2 universal to 3"/track mount		B	
B3 universal to 5"/track mount ♦		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"/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	
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	
D4H (high precision) to 48"/mounting frame		R	
Doppler to 12" with chain kit		S	
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
High temperature range HP transducer size B1H for temperatures up to 104 °C (220 °F)		Z	Q 1 K
High temperature range HP transducer size B2H for temperatures up to 104 °C (220 °F)		Z	Q 1 L
High temperature range HP transducer size C1H for temperatures up to 104 °C (220 °F)		Z	Q 1 M
High temperature range HP transducer size C2H for temperatures up to 104 °C (220 °F)		Z	Q 1 N
High temperature range HP transducer size D1H for temperatures up to 104 °C (220 °F)		Z	Q 1 P
High temperature range HP transducer size D2H for temperatures up to 104 °C (220 °F)		Z	Q 1 Q
High temperature range HP transducer size D4H for temperatures up to 104 °C (220 °F)		Z	Q 1 R

Selection and Ordering data		Order code
Further designs		
Please add „-Z“ to Order No. and specify Order code(s).		
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 or 6")		D10
Tag name plate		
• Stainless steel tag with 3.2 mm (0.13 inch) character size (26 characters max.)		Y17
• Stainless steel tag with 3.2 mm (0.13 inch) character size (68 characters max.)		Y19
♦ Mainstream products (delivery time 4 to 6 weeks)		

MLFB example

Application example

A general survey portable flowmeter is required for pipes sizes ranging from 76 ... 500 mm (3" ... 20") with both cast iron and steel material. Doppler may be required as liquid may be moderately aerated.

Requires language support for German.

MLFB Order No.: **7ME3510-2AB01-0DE0-Z B10**

Selection and Ordering data		Order-No.	Ord. code
FUP1010 meter family		7 ME 3 5 1 - ■ ■ ■ ■ ■ - 0 ■ ■ 0 ■ ■ ■ ■ ■	
IP67 weather proof		0	
Dual channel		2	
Portable Type 1 I/O with Doppler capable		A	
2 Plenum rated transducer cables 20 ft		B	
No RTDs required		0	
Charger Type A for Europe (CEE7/7)		1	
Transducer for DN 50 ... DN 300 (2" ... 12") pipes		D	
Transducer for DN 200 ... DN 600 (8" ... 24") pipes		E	
German language support			B 1 0

Transducer Selection Charts

Universal transducers for any pipe material					
Transducer	Order Code	Outer diameter range (mm)		Outer diameter range (inches)	
Size Code		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	240

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	11.17	0.32	0.44
D2H	Q	11.18	15.75	0.44	0.62
D4H	R	15.75	31.75	0.62	1.25