Standard MLFB for quick delivery on SITRANS FUP1010 Portable (excluding energy)

	r quick delivery on SI	IRANS FU	וטראנ	U Port	able (excluding ener	<i>gy)</i>			
Selection and Ordering data		Order No.	Order	Code	Selection and Order	Order No.	Order	Code	
SITRANS FUP1010 (Portable)					SITRANS FUP1010 (Portable)				
 IP67 weatherproof b 	attery powered L)	7ME3510-			IP67 weatherproof battery powered		7ME3510-		
		- (0 0				- 0	0	
Number of channels/ultrasonic paths Single channel Dual channel/Dual path		1 2			Sensor for channel 2 (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See "Sensor selection charts" for specifica-				
Standard flowmeter types and I/O configurations					tions. no sensor			A	
 Standard I/O 2 x 4 20 mA analog in 2 x RTD input 		с			A2 universal	Trackmount and straps provided up to 75 mm (3")		В	
Sensor cables No sensor cable		Α			B3 universal	Trackmount and straps provided up to 125 mm (5")		С	
1 x PVC Jacket cable, 2 x PVC Jacket cable, 1 x PVC Jacket cable,	, length 6 m/20 ft	B C D			C3 universal	Mounting frame and straps provided up to 300 mm (13")		D	
2 x PVC Jacket cable, RTD temperature Set	nsor	E			D3 universal	Mounting frame and straps provided up to 600 mm (24")		E	
(Mounting hardware & No RTDs 1 x standard clamp-on		0			E2 universal	Mounting frame and straps provided up to 600 mm (24")		F	
2 x standard clamp-on 1 x standard clamp-on	RTD with 6 m/20 ft cable RTD with 15 m/50 ft cable	6 7			C1H (high precision)	Mounting frame and straps provided up to 600 mm (24")		М	
Battery charger option	RTD with 15 m/50 ft cable	8			C2H (high precision)	Mounting frame and straps provided up to 600 mm (24")		N	
No battery charger Charger Type A for Europe (CEE7/7) Charger Type G for U.S. (NEMA 5-15P)		1 5			D1H (high precision)	Mounting frame and straps provided up to 600 mm (24")		Ρ	
Sensor for channel 1 (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed)					D2H (high precision)	Mounting frame and straps provided up to 600 mm (24")		Q	
See "Sensor selection tions.	charts" for specifica-				Doppler D1H	to 12" with strap kit (not for IP65 (NEMA 7)) High temperature		s z	Q 1 P
no sensor	Traduce out and strains		A B		BIII	range 104 °C / 220 °F		-	••••
A2 universal	Trackmount and straps provided up to 75 mm (3")		в		Approvals: No options	(UL, ULc, CE by default)			
B3 universal	Trackmount and straps provided up to 125 mm (5")		С		•	uct offering represents 4 to gulations AL: N, ECCN: 3A99		very	time
C3 universal	Mounting frame and straps provided up to 300 mm (13")		D						
D3 universal	Mounting frame and straps provided up to 600 mm (24")		E						
E2 universal	Mounting frame and straps provided up to 600 mm (24")		F						
C1H (high precision)	Mounting frame and straps provided up to 600 mm (24")		М						
C2H (high precision)	Mounting frame and straps provided up to 600 mm (24")		N						
D1H (high precision)	Mounting frame and straps provided up to 600 mm (24")		Ρ						
D4H (high precision)	Mounting frame and straps provided up to 600 mm (24")		R						
Doppler	to 12" with strap kit (not for IP65 (NEMA 7))		S						
D1H	High temperature range 104 °C/ 220 °F HP ²⁾		z	P 1 P					

Selection and Ordering data	Order No.	Ord. code	Selection and Order	ing data	Order No.	Ord. code
SITRANS FUP1010 (Portable)			SITRANS FUP1010 (Portable)		
• IP67 weatherproof battery powered L)	7ME3510-		 IP67 weatherproof b 	Dattery powered L)	7ME3510-	
	- 0	0			- 0	0
Number of channels/ultrasonic paths			Sensor for channel	1		
Single channel	1		Including pipe mounti	ng tracks for sizes A & B		
Dual channel/Dual path	2			hipe with a OD less than nting frame/spacer bars		
Standard flowmeter types and I/O			for sizes C, D & E sen	sors. Straps provided are		
configurations			for the indicated maxir	num OD listed below. to accommodate larger		
Standard I/O	С			art list). Refer to "Sensor		
 Reflexor capable Graphic display 			Selection Charts" for th			
- 2 x 0 10 V			pipe size and wall thic	KNESS.		
- 2 x 4 20 mA - 2 x pulse outputs			no sensor	Tra al manuat an al atrana		A B
 4 x status logic 			A2 universal	Trackmount and straps provided up to		D
- 2 x 4 20 mA analog in				75 mm (3")		
- 1 x RTD per channel			B3 universal	Trackmount and straps provided up to		С
Sensor cables (select proper quantity of active channels)				125 mm (5")		
No sensor cable	A		C3 universal	Mounting frame and		D
IP67 (weatherproof) only				straps provided up to 300 mm (13")		
1 x PVC-jacket, length 6 m (20 ft)	в		D3 universal	Mounting frame and		E
(for IP67 NEMA 6) ²⁷	•			straps provided up to 600 mm (24")		
2 x PVC-jacket, length 6 m (20 ft) (for IP67 NEMA 6) ²⁾	С		E2 universal	Mounting frame and straps provided up to		F
1 x PVC-jacket, length 15 m (50 ft) (for IP67 NEMA 6) ²⁾	D			600 mm (24")		
2 x PVC-jacket, length 15 m (50 ft) (for IP67 NEMA 6) ²⁾	E		For the following A1H perature range is -40	l to D4H sensors, tem- °C to 65 °C		
			(-41 °F to 150 °F), no			
RTD temperature sensor (for type 3 meter only, mounting hardware and			A2H (high precision)	Trackmount and straps		н
cable included)				provided up to 75 mm (3")		
No RTDs	0		A3H (high precision)	Trackmount and straps		J
I <u>P67 (weatherproof) only</u> 1 x standard clamp-on RTD (NEMA 6) with	5			provided up to 75 mm (3")		
6 m (20 ft) cable ¹⁾			B1H (high precision)	Trackmount and straps provided up to		к
2 x standard clamp-on RTD (NEMA 6) with 6 m (20 ft) cable ¹⁾	6			125 mm (5")		
1 x standard clamp-on RTD (NEMA 6) with 15 m (50 ft) cable ¹⁾	7		B2H (high precision)	Trackmount and straps provided up to 125 mm (5)		L
2 x standard clamp-on RTD (NEMA 6) with	8		C1H (high precision)	. ,		м
15 m (50 ft) cable ¹⁾				straps provided up to 600 mm (24")		
Battery charger options			C2H (high precision)	. ,		N
no battery charger Charger Type A for Europe (CEE7/7)	0			straps provided up to		
Charger Type C for Australia (AS3112)	2		D1H (high precision)	600 mm (24") Mounting frame and		Р
Charger Type D for U.K. (BS1363)	3		S in (ingli probibion)	straps provided up to		
Charger Type J for Japan (JIS8303)	4		DOL (high provision)	600 mm (24") Mounting frame and		0
Charger Type G for U.S. (NEMA 5-15P) Charger Type L for Switzerland (SEV1011)	5 6		רשע (nign precision)	Mounting frame and straps provided up to 600 mm (24")		Q
			D4H (high precision)	. ,		R

Doppler

L) Subject to export regulations AL: N, ECCN: 3A991X

High temperature sensor size 2 for up to 230 °C (446 °F) (30 to 200 mm diam. (1.18 to 7.67 inch diam.))

High temperature sensor size 3 for up to 230 °C (446 °F) (150 to 610 mm diam. (5.90 to 24 inch diam.))

High temperature sensor size 4 for up to 230 °C (446 °F) (400 to 1200 mm diam. (15.75 to 47.25 inch diam.))

to 12" with chain kit

s

z

z

Ζ

P 1 A

P 1 B

P1C

Selection and Order	ing data	Order No.	Ord	l. code	Selection and Ordering data	Order No.	Ord	. code
SITRANS FUP1010	(Portable)				SITRANS FUP1010 (Portable)			
 IP67 weatherproof I 	pattery powered L)	7ME3510-			IP67 weatherproof battery powered	7ME3510-		
•		- 0	0			- 0	0	
Sensor for channel	1 (continued)				Sensor for channel 2 (continued)			
	I to D4H sensors, tem- C up to 104 °C (30 °F up 5 °C (150 °F):				High temperature sensor 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
B1H (high temperatu B2H (high temperatu C1H (high temperatu	re range HP) re range HP)		Z Z Z	P1K P1L P1M	High temperature sensor size 3 for up to 230 °C (446 °F) (150 to 610 mm diam. (5.90 to 24 inch diam.))		z	Q1B
C2H (high temperatu D1H (high temperatu D2H (high temperatu D4H (high temperatu	re range HP) re range HP)		Z Z Z Z	P 1 N P 1 P P 1 Q P 1 R	High temperature sensor size 4 for up to 230 °C (446 °F) (400 to 1200 mm diam. (15.75 to 47.25 inch diam.)) For the following B1H to D4H sensors, tem-		Z	Q1C
indicated max. outer of See "Sensor selection tions.	ng kit and spacer bar for				perature range is -1 °C up to 104 °C (30 °F up to 220 °F), nominal 65 °C (150 °F): B1H (high temperature range HP) B2H (high temperature range HP) C1H (high temperature range HP)		Z Z Z	Q 1 K Q 1 L Q 1 M
no sensor A2 universal	Trackmount and straps provided up to 75 mm (3")		A B		C2H (high temperature range HP) D1H (high temperature range HP) D2H (high temperature range HP) D4H (high temperature range HP)		Z Z Z Z	Q 1 N Q 1 P Q 1 Q Q 1 R
B3 universal	Trackmount and straps provided up to 125 mm (5")		С		Approvals: No options (UL, ULc, CE by default) ¹⁾ -40 +200 °C (-40 +392 °F)		_	
C3 universal	Mounting frame and straps provided up to 300 mm (13")		D		 ²⁾ -40 +80 °C (-40 +176 °F) L) Subject to export regulations AL: N, ECCN: 3A9 	91X.		
D3 universal	Mounting frame and straps provided up to 600 mm (24")		E					
E2 universal	Mounting frame and straps provided up to 600 mm (24")		F		Selection and Ordering data Operating Instructions for	Order No.		
For the following A1H perature range is -40 (-41 °F to 150 °F), no					SITRANS FUP1010 English IP67 Weatherproof) A5E029515	22	
	Trackmount and straps provided up to 75 mm (3")		н		German IP67 Weatherproof E This device is shipped with a Quick Start Guide further SITRANS F literature.) A5E029515 and a CD co		ning
A3H (high precision)	· · /		J		All literature is also available for free at: http://www.siemens.com/flowdocumentation			
B1H (high precision)	· · ·		к		D) Subject to export regulations AL: N, ECCN: EA	(99H.		
B2H (high precision)	Trackmount and straps provided up to 125 mm (5")		L					
C1H (high precision)	Mounting frame and straps provided up to 600 mm (24")		м					
C2H (high precision)			N					
D1H (high precision)			Ρ					
D2H (high precision)	(/		Q					
D4H (high precision)			R					
Doppler	to 12" with chain kit		s					

Selection and Ordering data	Order code
Further designs	
Please add "-Z" to Order No. and specify Order code(s).	
Languages (Meter and Documentation), English (default). All languages now come standard in all flow- meters	
Wet flow transfer calibration (priced on request)	
6 point calibration 2/water (Price per channel)	
 2SS40 pipe 3CS40 pipe 4CS40 pipe 4SS40 pipe 6CS40 pipe 6CS40 pipe 6CS120 pipe 8CS40 pipe 8SS40 pipe 	D01 D02 D03 D04 D05 D06 D07 D08 D09
 8CS120 pipe 10CS Standard pipe 10CS40 pipe 10SS40 pipe 	D10 D11 D12 D13
 10SS40 pipe 12CS Standard pipe 12CS40 pipe 14CS30 pipe 	D13 D14 D15 D16
 14CS40 pipe 16CS Standard pipe 16CS40 pipe 18CS Standard pipe 	D17 D18 D19 D20
 20CS20 pipe 20CS30 pipe 24CS Standard pipe 24CS20 pipe 	D21 D22 D23 D24
 24CS30 pipe 30CS Standard pipe 36CS Standard pipe Other pipe, other liquid, additional points, witness 	D25 D26 D27 Y28
1x Insertion RTD with thermowell and lagging 2x Insertion RTD with thermowell and lagging	M1A M1B
Tag name plate	
• Stainless steel tag with 3.2 mm (0.13 inch) character size (68 characters max.)	Y19
¹⁾ Supplied spacer bar supports pipes up to 1050 mm (42 inch	nes). For pipes

 Supplied spacer bar supports pipes up to 1050 mm (42 inches). For pipes larger than 1050 mm (42 inches) purchase also, spare part 7ME3960-0MS40 (1012BN-4).

²⁾ Supplied spacer bar supports pipes up to 750 mm (30 inches). For pipes larger than 750 mm (30 inches) purchase also, spare part 7ME3960-0MS40 (1012BN-4).

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.: **7ME3511-2AB01-0DE0-Z** B10

Selection and Ordering data	Order No. Ord. code
SITRANS FUP1010 meter family	7 ME 3 5 1 - 0 0
IP67 weatherproof	1
Dual channel	2
Portable Type 3 I/O with Doppler capable, temperature	с
1 x PVC-Jacket, length 6 m (20 ft)	В
No RTDs required	0
Charger Type A for Europe (CEE7/7)	1
Sensor for DN 50 DN 300 (2" 12") pipes	D
Sensor for DN 200 DN 600 (8" 24") pipes	E
German language support	B 1 0

Universal sensor selection chart

Based on pipe size (pipes other than steel)								
Pipe size	Order Code	Outer diameter range (mm)		Outer dia range (in				
		min.	max.	min.	max.			
A2	В	12,7	50,8	0.5	2			
B3	С	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 sensor selection chart

Based on pipe wall thickness (steel pipes only)							
Pipe Wall	Order	Pipe Wal	l [mm]	Pipe Wall [inches]			
	Code	min.	max.	min.	max.		
A1H	G	0,64	1,02	0.025	0.04		
A2H	н	1,02	1,52	0.04	0.06		
A3H	J	1,52	2,03	0.06	0.08		
B1H	к	2,03	3,05	0.08	0.12		
B2H	L	3,05	4,06	0.12	0.16		
C1H	М	4,06	5,84	0.16	0.23		
C2H	Ν	5,84	8,13	0.23	0.32		
D1H	Р	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		