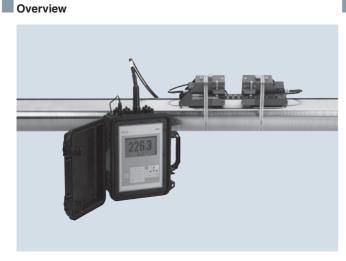
Flow Measurement SITRANS F US Clamp-on

SITRANS FUP1010 (Portable)



SITRANS FUP1010 clamp-on non-intrusive ultrasonic flow transmitter offers maximum versatility plus battery power for portable field use. It can operate in either WideBeam transit time or reflexor (Doppler) mode, making it suitable for virtually any liquid, even those with high aeration or suspended solids.

SITRANS FUP1010 is available in single and dual channel or dual path configurations, with IP67 weatherproof enclosure.

Benefits

- Battery power facilitates field use; the meter is easily transported from one installation to another – saving time for surveys, monitoring and temporary installations
- Weatherproof enclosure can be used outdoors and left in place without concern for rain damage
- Rugged plastic case enables it to withstand rough treatment that would destroy most other meters
- Versatility there is no need to change meters when operating conditions change
- · Easy installation; no need to cut pipe or stop flow
- Minimal maintenance; external sensors do not require periodic cleaning
- No moving parts to wear or foul
- No pressure drop or energy loss
- Wide turn-down ratio
- · Choice of single or dual channel models minimizes total cost
- ZeroMatic Path automatically sets zero without stopping flow and reduces zero drift, even at low flow
- Note that the SITRANS FUP1010 flow transmitter is not available with hazardous area approvals

Application

SITRANS FUP1010 is suitable for a wide variety of liquid applications, including the following:

- · Water industry
- Raw water
- Potable water
- Chemicals
- Wastewater industry
- Raw sewage
 Effluent
- Elliueni
- Sludges
 Mixed liquor
- Chemicals
- HVAC industry
 - Chillers
 - Condensers
 - Hot and cold water systems
 - Thermal energy rate and total
- Power industry
 - Nuclear
 - Fossil
 - Hydroelectric
- Processing industry
 - Process control
 - Batching
 - Rate indication
 - Volumetric and mass measurement

Design

- IP67 Weatherproof/Impact resistant enclosure constructed of mineral reinforced copolymer polypropylene
 - Single channel
 - Dual channel/dual path

Function

- Integral 33 button keypad and large (128 x 240 pixel) graphic display visible up to 12 m (40 ft) away
- Current, voltage, frequency and RS 232 outputs (see specification section for details)
- Optional current, voltage and temperature inputs (see specification section for details)
- · ZeroMatic Path automatically sets zero
- Bi-directional flow operation
- 1 MByte data logger with both site and data logger storage
- English, Spanish, German, Italian and French language options
- VT100 RS 232 communications

SITRANS F US Clamp-on

SITRANS FUP1010 (Portable)

Techn	ical sne	cifications
Techn	ical spe	ecifications

lechnical specifications	
Input	
Flow range	\pm 12 m/s (± 40 ft/s), bidirectional
Flow sensitivity	0.0003 m/s (0.001 ft/s), flow rate independent
Pipe size	6.4 mm 9.14 m (0.25" 360")
Inputs,	Current: 20 mA DC
single channel	• Temperature: 4 wire 1 k Ω RTD
Output	
Outputs	 Current: 20 mA DC (1 kΩ at 30 V DC)
	Voltage: 10 V DC
	(5 k Ω minimum)
	Status Alarm: SPDT Relays
	 Pulse rate: 5 kHz VT100 RS 232
Acouracy	• • • • • • • • • • • • • • • • • • • •
Accuracy Accuracy	± 0.5 % 2 % of flow,
Accuracy	for velocities greater than 0.3 m/s
	(1 ft/s) ± 0.0015 … 0.006 m/s
	(± 0.005 0.02 ft/s),
	for velocities less than 0.3 m/s (1 ft/s)
Batch repeatability	± 0.15 % of flow,
	for velocities greater than 0.3 m/s (1 ft/s)
	± 0.0005 m/s (± 0.0015 ft/s),
	for velocities less than 0.3 m/s (1 ft/s)
Rated operation conditions	. ,
Degree of protection	
Weatherproof/impact resistant	IP67
Liquid temperature	
• Standard	-40 +120 °C (-40 +250 °F)
Optional	-40 +230 °C (-40 +450 °F)
Ambient temperature	-18 +60 °C (0 140 °F)
Design	
Dimensions	see SITRANS F US Clamp-on
Mainh	"System info and selection guide"
Weight	see diagrams
Power supply	Internal rechargeable betten/
Power Battery operation	Internal rechargeable battery 7 hours
Indication and operation	7 Hours
Data logger memory	1 MByte
Site storage memory	50 sites minimum
Display	128 x 240 pixel LCD with back-
ыбрау	light
Keypad	33 keypad buttons with tactile
	feedback
Language options	English, Spanish, German, Italian, French
Certificates and approvals	
Unclassified locations	UL
	ULc
Classified locations	
CE	EMC Directive 2014/30/EU
	ATEX Directive 2014/34/EU

Flow Measurement SITRANS F US Clamp-on

SITRANS FUP1010 (Portable)

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

Standard MLFB to	or quick delivery on SI	IRANS FU	P101	0 F	or	table (excluding e	nergy)			
Selection and Order	ing data	Article No.	Orde	r Co	de	Selection and Or	dering data	Article No. Or	der	Code
SITRANS FUP1010 (Portable)					SITRANS FUP10	10 (Portable)			
 IP67 weatherproof I 	oattery powered 🛛 🖊	7ME3510-				 IP67 weatherpro 	of battery powered	7ME3510-		
		- 0	0			·		- 0	0	
Click on the Article guration in the PIA	e No. for the online confi- Life Cycle Portal.						unting kit and spacer bar			
Number of channels Single channel	·	1					outer diameter listed) tion charts" for specifica-			
Dual channel/Dual pa		2				no sensor		A		
Standard flowmeter configurations	types and I/O					A2 universal	Trackmount and straps provided up to 75 mm (3")	В		
 Standard I/O 2 x 4 20 mA an 2 x RTD input 	alog in	C				B3 universal	Trackmount and straps provided up to 125 mm (5")	с		
Sensor cables No sensor cable		A				C3 universal	Mounting frame and straps provided up to	D		
1 x PVC Jacket cable 2 x PVC Jacket cable 1 x PVC Jacket cable	e, length 6 m/20 ft ²⁾	B C D				D3 universal	300 mm (13") Mounting frame and straps provided up to	E		
2 x PVC Jacket cable	e, length 15 m/50 ft ²⁾	E				E2 universal	600 mm (24") Mounting frame and	F		
RTD temperature Se (Mounting hardware a No RTDs		0				C1H (high precisio	straps provided up to 600 mm (24") on) ³⁾ Mounting frame and	м		
	n RTD, 6 m/20 ft cable ¹⁾ n RTD with 6 m/20 ft	5					straps provided up to 600 mm (24")			
cable ¹⁾ 1 x standard clamp-or		7					on) ³⁾ Mounting frame and straps provided up to 600 mm (24")	N		
cable ¹⁾ 2 x standard clamp-or cable ¹⁾	n RTD with 15 m/50 ft	8				D1H (high precision	on) ³⁾ Mounting frame and straps provided up to 600 mm (24")	P		
Battery charger opti	ons					D2H (high precisio	on) ³⁾ Mounting frame and straps provided up to	a		
No battery charger Charger Type A for E		0 1				Doppler	600 mm (24") to 12" with strap kit	S		
Charger Type G for L	· · · · ·	5				D1H ³⁾	(not for IP65 (NEMA 7)) High temperature	z		Q 1 P
for indicated max. ou	ing kit and spacer bar						range 104 °C/220 °F HP ions (UL, ULc, CE by default)			
tions.	renaits for specifica-						roduct offering represents 4 to	n 6 weeks delive	rv ti	ime
no sensor			A				0 .		i y ti	IIIC
A2 universal	Trackmount and straps provided up to 75 mm (3")		В			¹⁾ -40 +200 °C (- ²⁾ -40 +80 °C (-4 ³⁾ Made of stainless				
B3 universal	Trackmount and straps provided up to 125 mm (5")		с							
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)	³⁾ Mounting frame and straps provided up to 600 mm (24")		м							
C2H (high precision)	³⁾ Mounting frame and straps provided up to 600 mm (24")		N							
D1H (high precision)	³⁾ Mounting frame and straps provided up to 600 mm (24")		P							
D4H (high precision)	³⁾ Mounting frame and straps provided up to 600 mm (24")		R							
Doppler	to 12" with strap kit (not for IP65 (NEMA 7))		s							
D1H ³⁾	High temperature range 104 °C/220 °F HP		z	P 1	Р					

SITRANS F US Clamp-on

SITRANS FUP1010 (Portable)

Selection and Ordering data	Article No.	Ord. code	Selection and Ord	dering data	Article No.	Ord. code
SITRANS FUP1010 (Portable)			SITRANS FUP101	•		
IP67 weatherproof battery powered	7ME3510-		 IP67 weatherprox 	of battery powered	7ME3510-	
	- 0				- 0	0
Click on the Article No. for the online confi- guration in the PIA Life Cycle Portal.				unting tracks for sizes A & B		
Number of channels/ultrasonic paths				or pipe with a OD less than ounting frame/spacer bars		
Single channel	1		for sizes C, D & E s	sensors. Straps provided are		
Dual channel/Dual path	2			aximum OD listed below. able to accommodate larger		
Standard flowmeter types and I/O configurations			pipes (refer to spar Selection Charts" fo	re part list). Refer to "Sensor or the sensor suitability of		
 Standard I/O Reflexor capable 	С		pipe size and wall t	INICKNESS.		
- Graphic display - 2 x 0 10 V - 2 x 4 20 mA - 2 x pulse outputs			no sensor A2 universal	Trackmount and straps provided up to 75 mm (3")		A B
 2 x pulse outputs 4 x status logic 2 x 4 20 mA analog in 1 x RTD per channel 			B3 universal	Trackmount and straps provided up to 125 mm (5")		с
Sensor cables (select proper quantity of active channels)			C3 universal	Mounting frame and straps provided up to 300 mm (13")		D
No sensor cable <u>IP67 (weatherproof) only</u>	A		D3 universal	Mounting frame and straps provided up to 600 mm (24")		E
1 x PVC-jacket, length 6 m (20 ft) (for IP67 NEMA 6) ²⁾	В		E2 universal	Mounting frame and straps provided up to		F
$2 \times PVC$ -jacket, length 6 m (20 ft) (for IP67 NEMA 6) ²⁾	C		For the following H	600 mm (24") High Precision sensors,		
1 x PVC-jacket, length 15 m (50 ft) (for IP67 NEMA 6) ²⁾ 2 x PVC-jacket, length 15 m (50 ft)	D		(-40 °F to +248 °F)	e is -40 °C to +120 °C), nominal 21 °C (70 °F):		
(for IP67 NEMA 6) ²⁾	-		A2H (high precisio	on) Trackmount and straps provided up to 75 mm (3")		Н
(for type 3 meter only, mounting hardware and cable included)			A3H (high precisio	on) Trackmount and straps provided up to 75 mm (3")		J
No RTDs IP67 (weatherproof) only	0		B1H (high precisio	. ,		к
1 x standard clamp-on RTD (NEMA 6) with 6 m (20 ft) cable ¹⁾	5		B2H (high precisic	125 mm (5") on) Trackmount and straps		L
2 x standard clamp-on RTD (NEMA 6) with 6 m (20 ft) cable ¹⁾	6			provided up to 125 mm (5)		
1 x standard clamp-on RTD (NEMA 6) with 15 m (50 ft) cable ¹⁾ 2 x standard clamp-on RTD (NEMA 6) with	8		CIH (nign precisio	on) ³⁾ Mounting frame and straps provided up to 600 mm (24")		М
15 m (50 ft) cable ¹⁾ Battery charger options			C2H (high precisio	on) ³⁾ Mounting frame and straps provided up to 600 mm (24")		N
no battery charger Charger Type A for Europe (CEE7/7)	0 1		D1H (high precisio	on) ³⁾ Mounting frame and straps provided up to		Р
Charger Type C for Australia (AS3112) Charger Type D for U.K. (BS1363) Charger Type J for Japan (JIS8303)	2 3 4		D2H (high precisio	600 mm (24") on) ³⁾ Mounting frame and straps provided up to 600 mm (24")		Q
Charger Type G for U.S. (NEMA 5-15P) Charger Type L for Switzerland (SEV1011)	5		D4H (high precisio	on) ³⁾ Mounting frame and straps provided up to 600 mm (24")		R
			Doppler	to 12" with chain kit		s
			High temperature	sensor size 2 for °F) (30 to 200 mm diam.		Z P1A
			High temperature			Z P1B

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

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

P 1 C

z

SITRANS F US Clamp-on

SITRANS FUP1010 (Portable)

Selection and Orderi	ing data	Article No.	Or	d. cod	e	Selection and Ordering data	Article No.	Orc	d. coo
SITRANS FUP1010 (Portable)					SITRANS FUP1010 (Portable)			
 IP67 weatherproof b 	attery powered	7ME3510-				IP67 weatherproof battery powered	7ME3510-		
		- 0		0			- 0		
	· / · · · ·	0		0			- 0		,
Sensor for channel 1	(,					Sensor for channel 2 (continued)			
	-40 °C to +120 °C ominal 65 °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
B1H (high temperatur B2H (high temperatur C1H (high temperatur	e range HP)		Z Z Z	P 1 P 1 P 1	L	High temperature sensor size 3 for up to 230 °C (446 °F) (150 to 610 mm diam. (5.90 to 24 inch diam.))		z	Q 1
C2H (high temperatur D1H (high temperatur D2H (high temperatur	e range HP)		Z Z Z	P 1 P 1 P 1	P	High temperature sensor size 4 for up to 230 °C (446 °F) (400 to 1200 mm diam. (15.75 to 47.25 inch diam.))		z	Q 1
D4H (high temperatur	0 ,		z	P 1	R	For the following High Precision sensors,			
indicated max. outer d	ng kit and spacer bar for	-				temperature range is -40 °C to +120 °C (-40 °F to +248 °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 Q 1 Q 1
no sensor			А			C2H (high temperature range HP)		z	Q1
A2 universal	Trackmount and straps provided up to 75 mm (3")		В			D1H (high temperature range HP) D2H (high temperature range HP)		z z	Q 1 Q 1
B3 universal	Trackmount and straps provided up to 125 mm (5")		С			D4H (high temperature range HP) Approvals : No options (UL, ULc, CE by default	:)	Z	Q 1
C3 universal	Mounting frame and straps provided up to 300 mm (13")		D			¹⁾ -40 +200 °C (-40 +392 °F) ²⁾ -40 +80 °C (-40 +176 °F) ³⁾ Made of stainless steel constructions.			
D3 universal	Mounting frame and straps provided up to 600 mm (24")		E		h	Selection and Ordering data	Article No.		
E2 universal	Mounting frame and straps provided up to 600 mm (24")		F		Г	Operating Instructions for SITRANS FUP1010			
For the following High temperature range is	Precision sensors, -40 °C to +120 °C					English IP67 Weatherproof German IP67 Weatherproof	A5E029515 A5E029515		
(-40 °F to +248 °F), no A2H (high precision)	Trackmount and straps provided up to		н			This device is shipped with a Quick Start Guide further SITRANS F literature. All literature is available to download for free, in			0
A3H (high precision)	75 mm (3") Trackmount and straps provided up to		J			www.siemens.com/processinstrumentation/doc		gua	goo,
B1H (high precision)	75 mm (3") Trackmount and straps provided up to 125 mm (5")		к						
B2H (high precision)	Trackmount and straps provided up to 125 mm (5")		L						
C1H (high precision) ³	³⁾ Mounting frame and straps provided up to 600 mm (24")		М						
C2H (high precision) ³	⁽ⁱ⁾ Mounting frame and straps provided up to 600 mm (24")		N						
D1H (high precision) ³	^{b)} Mounting frame and straps provided up to 600 mm (24")		Ρ						
D2H (high precision) ³	⁽⁾ Mounting frame and straps provided up to 600 mm (24")		Q						
D/H (high precision) ³	³⁾ Mounting frame and		R						
	straps provided up to 600 mm (24")								

SITRANS F US Clamp-on

SITRANS FUP1010 (Portable)

Order code	MLFB example						
	Application exa	mple					
	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 mod-						
	Requires language support for German.						
D01 D02 D03 D04	MLFB Article No.: 7ME3510-2CB01-0DE0-Z B10						
		-				Ord. code	
D06		0 meter	7 M	E351 -		0 0	
D07			-	0		_	
	Dual channel			2			
	Portable I/O with			-			
		emperature			Ŭ		
D12	1 x PVC-Jacket, length 6 m (20 ft)						
D13 No RTDs required					0		
D14	Charger Type A for Europe			1			
	(CEE7/7)						
		. DN 300				D	
	, , , , , , , , , , , , , , , , , , , ,					_	
D19		DIN 600				E	
D20							
D21	Universal sense	or selectio	n chari	IP68			
D22	Based on nine siz	ve (all nine)	material	e)			
					Outer	diameter	
	1 100 3120	Code			range		
D25			min.	max.	min.	max.	
D27	A2	В	12.7	50.8	0.5	2	
Y28	B3	с	19	127	0.75	5	
M1A	C3	D	51	305	2	12	
M1B	D3	Е	203	610	8	24	
Y19	E2	F	254	6096	10	249	
	D01 D02 D03 D04 D05 D06 D07 D08 D09 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D20 D21 D22 D23 D24 D25 D26 D27 Y28	Application exal A general survey ranging from 76 steel material. Do erately aerated. Requires language MLFB Article No.D01 D02 D03 D04Selection and Ord SITRANS FUP1016 familyD05 D06 D07 D08Selection and Ord SITRANS FUP1016 familyD07 D08 D09 D10 D10 D10 D11 D11No RTDs required CEE7/7)D13 D16 D15 D17 D15 D17 D16 D22 D23 D21 D21 D21 D22 D23 D23 D24 D25 D26 D27 D27 D26 D27 D27 D28 D27 M1A M1BApplication exal A general survey ranging from 76 steel material. Do erately aerated. Requires language MLFB Article No.D01 D02 D03 D04Selection and Ord SITRANS FUP1016 family IP67 weatherproof Dual channel Portable I/O with Doppler capable, to 1 x PVC-Jacket, leng No RTDs required CEE7/7)D16 D21 D22 D23 D23 D24 D24 D25 D26 D27 D26 D27 D27 A2 Rase M1A M1B	Application example A general survey portable franging from 76 500 mm steel material. Doppler may erately aerated. Requires language support MLFB Article No.: 7ME351 D01 D02 D03 D04 Selection and Ordering data SITRANS FUP1010 meter family D07 D08 D07 D08 D07 D08 D07 D08 D09 D01 D07 D08 D09 D10 D11 D09 D10 D11 D01 D12 1 x PVC-Jacket, length 6 m (20 f D13 No RTDs required D14 Charger Type A for Europe (CEE7/7) D16 Sensor for DN 50 DN 300 D17 (2* 12*) pipes D18 Sensor for DN 200 DN 600 D21 Universal sensor selection D22 D23 D24 Pipe size <td>Application example A general survey portable flowmetranging from 76 500 mm (3" 2 steel material. Doppler may be requerately aerated. Requires language support for Ge MLFB Article No.: 7ME3510-2CB B10 D02 Selection and Ordering data Article No.: D03 Selection and Ordering data Article No.: D04 Selection and Ordering data Article No.: D05 SiTRANS FUP1010 meter family 7 M D06 Dual channel Portable I/O with Doppler capable, temperature 7 M D11 Doppler capable, temperature 7 M D12 1 x PVC-Jacket, length 6 m (20 ft) No RTDs required D13 No RTDs required Charger Type A for Europe (CEE7/7) DN 600 (8" 24") pipes D18 Sensor for DN 50 DN 300 (2" 12") pipes DN 600 (8" 24") pipes D13 DN 600 (2" 12") pipes D20 D21 Universal sensor selection chard for example D23 D24 Based on pipe size (all pipe material Pipe size (all p</td> <td>Application example A general survey portable flowmeter is requiranging from 76 500 mm (3" 20") with b steel material. Doppler may be required as I erately aerated. Requires language support for German. MLFB Article No.: TME3510-2CB01-0DE0-B10 D01 Selection and Ordering data Article No. D03 Selection and Ordering data Article No. STRANS FUP1010 meter family 7 ME 3 5 1 1 D05 SiTRANS FUP1010 meter family 7 ME 3 5 1 1 D06 SiTRANS FUP1010 meter family 7 ME 3 5 1 1 D07 IP67 weatherproof 0 0 D08 Dual channel 2 2 D10 Portable I/O with Doppler capable, temperature 1 2 D11 Doppler capable, temperature 1 2 D13 No RTDs required Charger Type A for Europe (CEE7/7) 5 D18 Sensor for DN 50 DN 300 2 2 D23 D19 Sensor for DN 200 DN 600 8 D24 Dipe size (all pipe materials) 2 D25 D26 Crder Couter diameter range (mm)</td> <td>Application example A general survey portable flowmeter is required for pranging from 76 500 mm (3" 20") with both cast steel material. Doppler may be required as liquid materiately aerated. Requires language support for German. MLFB Article No.: 7ME3510-2CB01-0DE0-Z B10 D02 Selection and Ordering data Article No. D03 Selection and Ordering data Article No. D04 Selection and Ordering data Article No. D05 SITRANS FUP1010 meter family 7 ME 3 5 1 - D06 Dual channel 2 - D07 IP67 weatherproof 0 0 D08 Dual channel 2 C D11 Doppler capable, temperature 1 C D12 1 x PVC-Jacket, length 6 m (20 ft) B 0 D13 No RTDs required 0 1 D14 Charger Type A for Europe 0 1 D15 CE7/7) D16 Sensor for DN 50 DN 300 0 D12 Universal sensor selection chart IP68 Based on pipe size (all pipe materials) 0 D21 Universal sensor selection chart IP68 B</td>	Application example A general survey portable flowmetranging from 76 500 mm (3" 2 steel material. Doppler may be requerately aerated. Requires language support for Ge MLFB Article No.: 7ME3510-2CB B10 D02 Selection and Ordering data Article No.: D03 Selection and Ordering data Article No.: D04 Selection and Ordering data Article No.: D05 SiTRANS FUP1010 meter family 7 M D06 Dual channel Portable I/O with Doppler capable, temperature 7 M D11 Doppler capable, temperature 7 M D12 1 x PVC-Jacket, length 6 m (20 ft) No RTDs required D13 No RTDs required Charger Type A for Europe (CEE7/7) DN 600 (8" 24") pipes D18 Sensor for DN 50 DN 300 (2" 12") pipes DN 600 (8" 24") pipes D13 DN 600 (2" 12") pipes D20 D21 Universal sensor selection chard for example D23 D24 Based on pipe size (all pipe material Pipe size (all p	Application example A general survey portable flowmeter is requiranging from 76 500 mm (3" 20") with b steel material. Doppler may be required as I erately aerated. Requires language support for German. MLFB Article No.: TME3510-2CB01-0DE0-B10 D01 Selection and Ordering data Article No. D03 Selection and Ordering data Article No. STRANS FUP1010 meter family 7 ME 3 5 1 1 D05 SiTRANS FUP1010 meter family 7 ME 3 5 1 1 D06 SiTRANS FUP1010 meter family 7 ME 3 5 1 1 D07 IP67 weatherproof 0 0 D08 Dual channel 2 2 D10 Portable I/O with Doppler capable, temperature 1 2 D11 Doppler capable, temperature 1 2 D13 No RTDs required Charger Type A for Europe (CEE7/7) 5 D18 Sensor for DN 50 DN 300 2 2 D23 D19 Sensor for DN 200 DN 600 8 D24 Dipe size (all pipe materials) 2 D25 D26 Crder Couter diameter range (mm)	Application example A general survey portable flowmeter is required for pranging from 76 500 mm (3" 20") with both cast steel material. Doppler may be required as liquid materiately aerated. Requires language support for German. MLFB Article No.: 7ME3510-2CB01-0DE0-Z B10 D02 Selection and Ordering data Article No. D03 Selection and Ordering data Article No. D04 Selection and Ordering data Article No. D05 SITRANS FUP1010 meter family 7 ME 3 5 1 - D06 Dual channel 2 - D07 IP67 weatherproof 0 0 D08 Dual channel 2 C D11 Doppler capable, temperature 1 C D12 1 x PVC-Jacket, length 6 m (20 ft) B 0 D13 No RTDs required 0 1 D14 Charger Type A for Europe 0 1 D15 CE7/7) D16 Sensor for DN 50 DN 300 0 D12 Universal sensor selection chart IP68 Based on pipe size (all pipe materials) 0 D21 Universal sensor selection chart IP68 B	

High precision sensor selection chart IP68

Based on pipe wall thickness (steel pipes only)											
Pipe Wall	Order	Pipe Wal	l [mm]	Pipe Wall [inch]							
	Code	e min. max.		min.	max.						
A1H	G	0.64	1.02	0.025	0.04						
A2H	н	1.02	1.52	0.04	0.06						
АЗН	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 ¹⁾	М	4.06	5.84	0.16	0.23						
C2H ¹⁾	Ν	5.84	8.13	0.23	0.32						
D1H ¹⁾	Р	8.13	11.18	0.32	0.44						
D2H ¹⁾	Q	11.18	15.75	0.44	0.62						
D4H ¹⁾	R	15.75	31.75	0.62	1.25						

1) Made of stainless steel constructions.

3/348 Siemens FI 01 · 2016