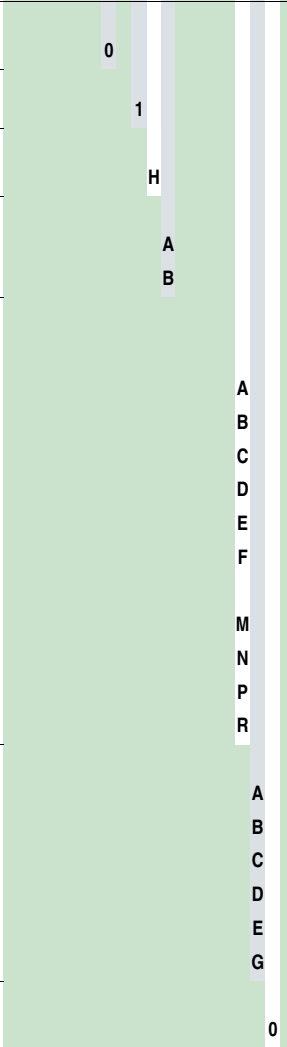


Selection and Ordering data		Order No.
SITRANS FST020 (Basic)		7ME357 - 30 - 0
Design		
IP65 (NEMA 4X) wall mount		
Number of channels/ultrasonic paths		
Single channel		
Flowmeter functions and I/O configurations		
• With display and 1 additional analog output and SPST relay		
Meter power options		
100 ... 240 V AC		
11.5 ... 28.5 V DC, 10 W max		
Sensor		
(includes pipe mounting kit for indicated max. OD listed) See "Sensor selection charts" for specifications.		
no sensor		A
A2 universal	Trackmount and straps provided up to 75 mm (3")	B
B3 universal	Trackmount and straps provided up to 125 mm (5")	C
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 1200 mm (48") ¹⁾	F
For the following A1H to D4H sensors, temperature range is -40 ... 65 °C (-41 ... 150 °F), nominal 21 °C (70 °F)		
C1H (high precision)	Mounting frame and straps provided up to 1200 mm (48")	M
C2H (high precision)	Mounting frame and straps provided up to 1200 mm (48")	N
D1H (high precision)	Mounting frame and straps provided up to 1200 mm (48") ¹⁾	P
D4H (high precision)	Mounting frame and straps provided up to 1200 mm (48") ¹⁾	R
Sensor cables		
No sensor cable		A
6 m (20 ft) PVC Jacket (1 pr)		B
15 m (50 ft) PVC Jacket (1 pr)		C
30 m (100 ft) PVC Jacket		D
46 m (150 ft) PVC Jacket		E
91 m (300 ft) PVC Jacket		G
Approvals		
UL, UL _C , CE, C-TICK		0
Standard MLFB offering represents 2 to 3 weeks delivery time for quantities under 5.		

¹⁾ 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).

Selection and Ordering data		Order No.	Ord. code
SITRANS FST020 (Basic) IP65 (NEMA 4x)		7ME3570-	
		3 0 - 0	
Number of channels/ultrasonic paths			
Single channel		1	
Flowmeter functions and I/O configurations			
With display keypad 1x 4 ... 20 mA, 1x relay, 1x pulse/frequency, 2x digital input		H	
Meter power options			
100 ... 240 V AC		A	
11.5 ... 28.5 V DC		B	
Sensor for channel 1¹⁾			
Including pipe mounting tracks for Sizes A & B universal sensors indented for pipe with a OD less than 125 mm (5") and mounting frame/spacer bars for sizes C, D & E universal sensors. Straps provided are for the indicated maximum OD listed below. Strap kits are available to accommodate larger pipes (refer to spare part list). Refer to "Sensor Selection Charts" for the sensor suitability of pipe size and wall thickness			
no sensor			A
A2 universal	Trackmount and straps provided up to 75 mm (3")		B
B3 universal	Trackmount and straps provided up to 125 mm (5")		C
C3 universal	Mounting frame and straps provided up to 330 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 1200 mm (48")		F
For the following A1H to D4H transducers, temperature range is -40 ... 65 °C (-41 ... 150 °F), nominal 21 °C (70 °F)			
A2H (high precision)	Trackmount and straps provided up to 75 mm (3")		H
A3H (high precision)	Trackmount and straps provided up to 75 mm (5")		J
B1H (high precision)	Trackmount and straps provided up to 125 mm (5")		K
B2H (high precision)	Trackmount and straps provided up to 125 mm (5")		L
C1H (high precision)	up to 600 min (24") with mounting hardware		M
C2H (high precision)	up to 600 min (24") with mounting hardware		N
D1H (high precision)	Mounting frame and straps provided up to 1200 mm (48") ¹⁾		P
D2H (high precision)	Mounting frame and straps provided up to 1200 mm (48") ¹⁾		Q
D4H (high precision)	Mounting frame and straps provided up to 1200 mm (48") ¹⁾		R

Selection and Ordering data		Order No.	Ord. code
SITRANS FST020 (Basic) IP65 (NEMA 4x)		7ME3570-	
		3 0 - 0	
High temperature sensor size 2 for up to 230 °C (446 °F) (30 to 200 mm diam. (1 to 8 inch diam.))		Z	P 1 A
High temperature sensor size 3 for up to 230 °C (446 °F) (150 to 610 mm diam. 6 to 24 inch diam.))		Z	P 1 B
High temperature sensor size 4 for up to 230 °C (446 °F) (400 to 1200 mm diam. (16 to 48 inch diam.))		Z	P 1 C
Sensor cables (pair)			
No sensor cable			A
6 m (20 ft) PVC Jacket			B
15 m (50 ft) PVC Jacket			C
30 m (100 ft) PVC Jacket			D
46 m (150 ft) PVC Jacket			E
61 m (200 ft) PVC Jacket			F
91 m (300 ft) PVC Jacket			G
6 m (20 ft) Plenum rated (Teflon jacket)			H
15 m (50 ft) Plenum rated (Teflon jacket)			J
30 m (100 ft) Plenum rated (Teflon jacket)			K
46 m (150 ft) Plenum rated (Teflon jacket)			L
61 m (200 ft) Plenum rated (Teflon jacket)			M
91 m (300 ft) Plenum rated (Teflon jacket)			N
Approvals			
UL, UL _C , CE, C-TiCK			0

¹⁾ Supplied spacer bar supports pipes up to 1050 mm (42"). For pipes larger than 1050 mm (42") purchase also, spare part 7ME3960-0MS40 (1012BN-4)

Selection and Ordering data	Order code
Further designs Please add "-Z" to Order No. and specify Order code(s).	
Cable termination kit (for one cable pair) • Sensor cable termination for standard and plenum cable	T01
Wet flow transfer calibration (priced on request)	
6 point calibration 2/water (Price per channel)	
• 2SS40 pipe	D01
• 3CS40 pipe	D02
• 4CS40 pipe	D03
• 4SS40 pipe	D04
• 6CS40 pipe	D05
• 6SS40 pipe	D06
• 6CS120 pipe	D07
• 8CS40 pipe	D08
• 8SS40 pipe	D09
• 8CS120 pipe	D10
• 10CS Standard pipe	D11
• 10CS40 pipe	D12
• 10SS40 pipe	D13
• 12CS Standard pipe	D14
• 12CS40 pipe	D15
• 14CS30 pipe	D16
• 14CS40 pipe	D17
• 16CS Standard pipe	D18
• 16CS40 pipe	D19
• 18CS Standard pipe	D20
• 20CS20 pipe	D21
• 20CS30 pipe	D22
• 24CS Standard pipe	D23
• 24CS20 pipe	D24
• 24CS30 pipe	D25
• 30CS Standard pipe	D26
• 36CS Standard pipe	D27
• Other pipe, other liquid, additional points, witness	Y28
Tag name plate • Stainless steel tags with 3.2 mm (0.13 inch) character size (68 characters max.)	Y19

MLFB example

Application example

A basic clamp-on meter is required for a DN 150 (6" schedule 40) carbon steel waste water line, with a pipe wall thickness of 7.1 mm (0.28"). Meter electronics are to be located in an instrumentation shed with available AC power. 36 m (120 ft) of sensor cable is needed to reach pipe location.

MLFB Order No.: **7ME3570-1HA300-ONE0**

Selection and Ordering data	Order code
Operating Instructions for SITRANS FST020	
English NEMA 4X	A5E03086487
German NEMA 4X	A5E03086488
This device is shipped with a Quick Start Guide and a CD containing further SITRANS F literature.	
All literature is also available for free at: http://www.siemens.com/flowdocumentation	

Universal sensor selection chart IP68

Based on pipe size (pipes other than steel)					
Pipe size	Order Code	Outer diameter range (mm)		Outer diameter range (inch)	
		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	249

High precision sensor selection chart IP68

Based on pipe wall thickness (steel pipes only)					
Pipe Wall	Order Code	Pipe Wall [mm]		Pipe Wall [inch]	
		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

Selection and Ordering data	Order No.	Ord. code
SITRANS FST020 meter family	7 ME 3 5 7	3 0 - 0 0
IP65 (NEMA 4X) enclosure	0	
Single channel	1	
Standard I/O option	H	
100 ... 240 V AC power option	A	
Sensor code for channel 1		N
46 m (150 ft) sensor cable		E