

Standard MLFB for quick delivery on SITRANS FST020 (Basic)**Selection and Ordering data**

Order No.

SITRANS FST020 (Basic)

L) 7ME357 - 30-0

Design

IP65 (NEMA 4X) wall mount

0

Number of channels/ultrasonic paths

Single channel

1

Flowmeter functions and I/O configurations

- With display and 1 additional analog output and SPST relay

H

Meter power options

100 ... 240 V AC

A

11.5 ... 28.5 V DC, 10 W max

B

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

ApprovalsUL, 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-OMS40 (1012BN-4).

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

SITRANS FST020 (Basic) IP65 (NEMA 4x) L) 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
11.5 ... 28.5 V DC

A

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
- A2 universal Trackmount and straps provided up to 75 mm (3")
- B3 universal Trackmount and straps provided up to 125 mm (5")
- C3 universal Mounting frame and straps provided up to 330 mm (13")
- D3 universal Mounting frame and straps provided up to 600 mm (24")
- E2 universal Mounting frame and straps provided up to 1200 mm (48")

A

B

C

D

E

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")
- A3H (high precision) Trackmount and straps provided up to 75 mm (5")
- B1H (high precision) Trackmount and straps provided up to 125 mm (5")
- B2H (high precision) Trackmount and straps provided up to 125 mm (5")
- C1H (high precision) up to 600 min (24") with mounting hardware
- C2H (high precision) up to 600 min (24") with mounting hardware
- D1H (high precision) Mounting frame and straps provided up to 1200 mm (48")¹⁾
- D2H (high precision) Mounting frame and straps provided up to 1200 mm (48")¹⁾
- D4H (high precision) Mounting frame and straps provided up to 1200 mm (48")¹⁾

H

J

K

L

M

N

P

Q

R

SITRANS FST020 (Basic) IP65 (NEMA 4x) L) 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
- 6 m (20 ft) PVC Jacket
- 15 m (50 ft) PVC Jacket
- 30 m (100 ft) PVC Jacket
- 46 m (150 ft) PVC Jacket
- 61 m (200 ft) PVC Jacket
- 91 m (300 ft) PVC Jacket
- 6 m (20 ft) Plenum rated (Teflon jacket)
- 15 m (50 ft) Plenum rated (Teflon jacket)
- 30 m (100 ft) Plenum rated (Teflon jacket)
- 46 m (150 ft) Plenum rated (Teflon jacket)
- 61 m (200 ft) Plenum rated (Teflon jacket)
- 91 m (300 ft) Plenum rated (Teflon jacket)

A

B

C

D

E

F

G

H

J

K

L

M

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-OMS40 (1012BN-4)
L) Subject to export regulations AL: N, ECCN: 3A991X.

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
- 3CS40 pipe
- 4CS40 pipe
- 4SS40 pipe
- 6CS40 pipe
- 6SS40 pipe
- 6CS120 pipe
- 8CS40 pipe
- 8SS40 pipe
- 8CS120 pipe
- 10CS Standard pipe
- 10CS40 pipe
- 10SS40 pipe
- 12CS Standard pipe
- 12CS40 pipe
- 14CS30 pipe
- 14CS40 pipe
- 16CS Standard pipe
- 16CS40 pipe
- 18CS Standard pipe
- 20CS20 pipe
- 20CS30 pipe
- 24CS Standard pipe
- 24CS20 pipe
- 24CS30 pipe
- 30CS Standard pipe
- 36CS Standard pipe
- Other pipe, other liquid, additional points, witness

D01
D02
D03
D04
D05
D06
D07
D08
D09
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25
D26
D27
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 No.

Ord. code

SITRANS FST020 meter family D) **7ME357-30-00**

IP65 (NEMA 4X) enclosure

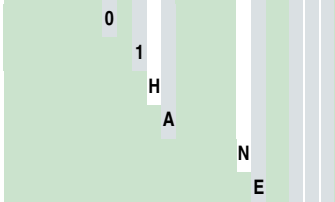
Single channel

Standard I/O option

100 ... 240 V AC power option

Sensor code for channel 1

46 m (150 ft) sensor cable



D) Subject to export regulations AL: N, ECCN: EAR99H.

Selection and Ordering data

Order code

Operating Instructions for SITRANS FST020

English NEMA 4X

 D) **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
Based on pipe size (pipes other than steel)

Pipe size	Order Code	Outer diameter range (mm)		Outer diameter range (inches)	
		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
Based on pipe wall thickness (steel pipes only)

Pipe Wall	Order Code	Pipe Wall [mm]		Pipe Wall [inches]	
		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