



SITRANS FUS1010 Standard clamp-on

Technical specifications

SITRANS FUS1010, IP65 (NEMA 4X) Flow transmitter



Enclosure IP65 (NEMA 4X)

Input

Flow range	± 12 m/s (± 40 ft/s), bidirectional
Pipe size	6.4 mm ... 9.14 m (0.25" ... 360")
Optional inputs Single channel	<ul style="list-style-type: none"> • Current: 2 x 4 ... 20 mA DC • Voltage: 2 x 0 ... 10 V DC • Temperature: 2 x 4 wire 1 kΩ RTD

Output

Standard outputs	<ul style="list-style-type: none"> • Current: 2 x 4 ... 20 mA DC (1 kΩ at 30 V DC) • Voltage: 2 x 0 ... 10 V DC (5 kΩ min.) • Status Alarm: 4 x SPDT relays • Mercury wetted relays • Frequency: 2 x 0 ... 5 kHz • RS232
Optional outputs	<ul style="list-style-type: none"> • Mercury wetted relays • Expanded I/Os (4 additional 4 ... 20 mA outputs) with form c relays • Expanded I/Os with Mercury wetted relays • uniMass capability with 1 RTD input and 4 x 4 ... 20 mA analog input

Accuracy

Accuracy	$\pm 0.5\%$... 1.0% of flow, for velocities greater than 0.3 m/s (1 ft/s) ± 0.0015 ... 0.003 m/s (± 0.005 ... 0.01 ft/s), for velocities less than 0.3 m/s (1 ft/s)
Batch repeatability	$\pm 0.15\%$ 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)

Data refresh rate

5 Hz

Rated operation conditions

Degree of protection	IP65 (NEMA 4X)
Liquid temperature	<ul style="list-style-type: none"> • 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 "System info and selection guide"
Weight	see diagrams

Power supply

90 ... 240 V AC, 50 ... 60 Hz, 30 VA or
9 ... 36 V DC, 12 W

Indication and operation

Data logger memory	1 MByte
Display	128 x 240 pixel LCD with backlight
Keypad	33 keypad buttons with tactile feedback
Language options	English, spanish, german, italian, french

Certificates and approvals

FM and CSA ratings	I.S. Class I, II, Div 1 N-I Class I, Div 2 S Class II, Div 2
CE	EMC Directive 2004/108/EC LVD Directive 2006/95/EG C-TICK
ATEX ratings	<ul style="list-style-type: none"> • Transmitter: Ex II (1) G [Ex ia] IIC Ex II 3 (1) G Ex nC [ia] IIC T5 • Sensors: Ex II 1 G Ex ia IIC T5
INMETRO Ratings	<ul style="list-style-type: none"> • Transmitter: [BR-Ex ia] IIC BR-Ex nC [ia] IIC T5 • Sensors: BR-Ex ia IIC T5

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SITRANS FUS1010 Standard clamp-on

SITRANS FUS1010, IP65 (NEMA 7) Compact explosionproof



Enclosure IP65 (NEMA 7)

Input	
Flow range	± 12 m/s (± 40 ft/s), bidirectional
Pipe size	6.4 mm ... 9.14 m (0.25" ... 360")
Optional inputs single channel	<ul style="list-style-type: none"> • Current: 1 x 4 ... 20 mA DC • Temperature: 2 x 4 wire 1 kΩ RTD
Output	
Outputs	<ul style="list-style-type: none"> • Current (externally powered): 1 x 4 ... 20 mA DC (1 kΩ at 30 V DC) • Status Alarm: 1 x Isolated open collector • Frequency: 2 x 0 ... 5 kHz • RS232
Accuracy	
	± 0.5% ... 1.0% of flow, for velocities greater than 0.3 m/s (1 ft/s) ± 0.0015 ... 0.003 m/s (± 0.005 ... 0.01 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)
Data refresh rate	5 Hz
Rated operation conditions	
Degree of protection	IP65 (NEMA 7)
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 "System info and selection guide"
Weight	see diagrams
Power supply	90 ... 240 V AC, 50 ... 60 Hz, 15 VA or 9 ... 36 V DC, 10 W

Indication and operation

Data logger memory	1 MByte
Display	2 x 16 alphanumeric LCD display
Keypad	5 Magnetic hall effect switches
Language options	English, spanish, german, italian, french

Certificates and approvals

FM and CSA ratings	XP Class I, Div 1 D-I Class II, Div 1 I.S. Class I, Div 1 N-I Class I, Div 2 S Class II, Div 2
ATEX ratings	<ul style="list-style-type: none"> • Flow transmitter: Ex II 2 (1) G Ex d [ia] IIB + H2 T5 • Sensors: Ex II 1 G Ex ia IIC T5
INMETRO ratings (Brazil)	<ul style="list-style-type: none"> • Transmitter: BR Ex d [ia] IIC T5 • Sensors: BR-Ex ia IIC T5

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SITRANS FUS1010 Standard clamp-on

SITRANS FUS1010, IP66 (NEMA 7) Wall mount explosionproof enclosure



Enclosure IP66 (NEMA 7)

Input	
Flow range	± 12 m/s (± 40 ft/s), bidirectional
Pipe size	6.4 mm ... 9.14 m (0.25" ... 360")
Optional Inputs single channel	<ul style="list-style-type: none"> • Current: 2 x 4 ... 20 mA DC • Voltage: 2 x 0 ... 10 V DC • Temperature: 2 x 4 wire 1 kΩ RTD
Output	
Outputs single channel	<ul style="list-style-type: none"> • Current: 2 x 4 ... 20 mA DC (1 kΩ at 30 V DC) • Voltage: 2 x 0 ... 10 V DC (5 kΩ min.) • Status Alarm: 4 x SPDT Relays • Frequency: 2 x 0 ... 5 kHz • RS232
Accuracy	
Accuracy	± 0.5% ... 1.0% of flow, for velocities greater than 0.3 m/s (1 ft/s) ± 0.0015 ... 0.003 m/s (± 0.005 ... 0.01 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)
Data refresh rate	5 Hz
Rated operation conditions	
Degree of protection	IP66 (NEMA 7)
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 "System info and selection guide"
Weight	see diagrams
Power supply	90 ... 240 V AC, 50 ... 60 Hz, 30 VA or 9 ... 36 V DC, 12 W

Indication and operation

Data logger memory	1 MByte
Display	128 x 240 pixel LCD with back-light
Keypad	33 keypad buttons with tactile feedback
Language options	English, spanish, german, italian, french

Certificates and approvals

FM and CSA ratings	XP Class I, Div 1 D-I Class II, Div 1 I.S. Class I, Div 1 N-I Class I, Div 2 S Class II, Div 2
CE	EMC Directive 2004/108/EC LVD Directive 2006/95/EG C-TICK
ATEX ratings	<ul style="list-style-type: none"> • Flow transmitter Ex II (1) G [Ex ia] IIC Ex II 3 (1) G Ex nC [ia] IIC T5 Ex II 2 (1) G Ex d [ia IIC] IIB + H2 T5 • Sensors: Ex II 1 G Ex ia IIC T5
INMETRO ratings (Brazil)	<ul style="list-style-type: none"> • Flow transmitter: [BR-Ex ia] IIC BR-Ex d [ia IIC] IIB T5 • Sensors: BR-Ex ia IIC T5

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Standard MLFB for quick delivery on SITRANS FUS1010 (Dedicated standard)

Selection and Ordering data	Order No.	Order code
SITRANS FUS1010 Standard clamp-on	L) 7ME353 - - 0	+ K02 + K02 + R02
Design IP65 (NEMA 4X)	0	
Number of channels/ultrasonic paths Single channel Dual channel/Dual path	1 2	
Flowmeter functions and I/O configurations includes graphic display and Reflexor capability Standard outputs • 2 x 0 ... 10 V • 2 x 4 ... 20 mA • 2 x pulse output • 4 x relay C type	A	
Meter power options 90 ... 240 V AC 9-36 V DC (except NEMA 7 Compact)	A B	
Communication options RS 232 (standard)	0	
RTD temperature sensor (include mounting hardware for pipes between 1.5" and 24" outer diameter) No RTDs 1x standard clamp-on 2x standard clamp-on 1x submersible 2x submersible	0 1 2 3 4	
Sensor for channel 1 (includes pipe mounting kit and spacer bar for indicated max. OD listed) See „Sensor selection charts“ for specifications. 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 300 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") ¹⁾ C1H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾ C2H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾ D1H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾ D4H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾ Doppler to 12" with strap kit (not for IP65 (NEMA7)) D1H High temperature range 104 °C / 220 °F HP ²⁾	A B C D E F M N P R S Z	P 1 P

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SITRANS FUS1010 Standard clamp-on

Selection and Ordering data	Order No.	Order code
SITRANS FUS1010 Standard clamp-on	L) 7ME353 - - 0	+ K02 + K02 + R02
Sensor for channel 2 (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
C1H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾		M
C2H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾		N
D1H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾		P
D4H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾		R
Doppler to 12" with strap kit (not for IP65 (NEMA7))		S
D1H High temperature range 104 °C / 220 °F HP ²⁾		Z
Approvals		Q1P
FM/CSA, CE, C-TICK (default)		1
ATEX, CE, C-TICK		2

¹⁾ Supplied spacer bar supports pipes up to 1050 mm (42 inches). For pipes larger than 1050 mm (42 inches) purchase also, spare part 7ME3960-OMS40 (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-OMS40 (1012BN-4)

Standard MLFB product offering represents 4 to 6 weeks delivery time

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

For sensor and RTD cables for quick delivery see tables at end of section.

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SITRANS FUS1010 Standard clamp-on

Selection and Ordering data	Order No.	Ord. code
SITRANS FUS1010 Standard clamp-on		
• IP65 (NEMA 4X)	L) 7ME3530-	
• IP65 (NEMA 7) compact	L) 7ME3531-	
• IP66 (NEMA 7) wall mounted	L) 7ME3533-	
	0 -	
Number of channels/ultrasonic paths		
Single channel	1	
Dual channel / Dual path	2	
Special: Four channel / Four path (NEMA 4X and NEMA 7 wall mount only)	9	H 1 A
Flowmeter functions and I/O configurations		
includes graphic or digital display and Reflexor capability for all except IP65 (NEMA 7) compact units		
<u>IP65 (NEMA 4X) and IP66 (NEMA 7 wall mounted) units</u>		
• Standard outputs - 2 x 0 ... 10 V - 2 x 4 ... 20 mA - 2 x pulse output - 4 x relay C type	A	
• Standard outputs with optional input adder - UniMass capability with 2 x RTD input and - 4 x 4 ... 20 mA analog input	C	
<u>IP65 (NEMA 7) compact units</u>		
• Standard outputs - 1 x 4 ... 20 mA (Loop) and 1 x status (open collector) per channel - 1 x pulse output for single channel units only	D	
• Standard outputs with optional input adder - UniMass capability with 1 RTD input and - 1 x analog input per channel	F	
• Standard outputs with Mercury wetted relays and optional input adder	Z	J 1 A
• Extended outputs adder with optional input adder (4 additional 4 ... 20 mA outputs) and form C relay	Z	J 1 B
• Extended outputs adder with optional input adder (4 additional 4 ... 20mA outputs) and Mercury wetted relays	Z	J 1 C
• Standard outputs with Mercury wetted relays	Z	J 1 D
Meter power options		
90 ... 240 V AC	A	
9 ... 36 V DC (except compact NEMA 7)	B	
9 ... 36 V DC negative GND (compact only)	J	
9 ... 36 V DC positive GND (compact only)	K	
Communication options		
RS232 (standard)	0	
MODBUS (dedicated only, excludes NEMA 7 compact)	1	
RTD temperature sensor		
(includes mounting hardware for pipes between 1.5" and 24" outer diameter)		
No RTDs	0	
1 x standard clamp-on RTD	1	
2 x standard clamp-on RTD	2	
1 x submersible clamp-on RTD	3	
2 x submersible clamp-on RTD	4	
1 x Insertion style RTD with thermowell and lagging	9	N 1 A
2 x Insertion style RTD with thermowell and lagging	9	N 1 B

Selection and Ordering data	Order No.	Ord. code
SITRANS FUS1010 Standard clamp-on		
• IP65 (NEMA 4X)	L) 7ME3530-	
• IP65 (NEMA 7) compact	L) 7ME3531-	
• IP66 (NEMA 7) wall mounted	L) 7ME3533-	
	0 -	
Sensor for channel 1		
Including pipe mounting tracks for sizes A & B sensors indented for pipe with a OD less than 125 mm (5") and mounting frame/spacer bars for sizes C, D & E 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 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 °C to 65 °C (-41 °F to 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 (3")	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)	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") ²⁾	P
D2H (high precision)	Mounting frame and straps provided up to 1200 mm (48") ²⁾	Q
D4H (high precision)	Mounting frame and straps provided up to 1200 mm (48") ²⁾	R
Doppler	to 12" with strap kit (not for IP65 (NEMA 7))	S
1) Supplied spacer bar supports pipes up to 1050 mm (42 inches). For pipes larger than 1050 mm (42 inches) purchase also, spare part 7ME3960-OMS40 (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-OMS40 (1012BN-4)		
L) Subject to export regulations AL: N, ECCN: 5A991X.		

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Selection and Ordering data	Order No.	Ord. code
SITRANS FUS1010 Standard clamp-on		
• IP65 (NEMA 4X)	L) 7ME3530-	
• IP65 (NEMA 7) compact	L) 7ME3531-	
• IP66 (NEMA 7) wall mounted	L) 7ME3533-	
	0 -	
Sensor for channel 1 (continued)		
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	P 1 A
High temperature sensor 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 sensor 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
For the following B1H to D4H sensors, temperature range is -1 °C up to 104 °C (30 °F up to 220 °F), nominal 65 °C (150 °F):		
B1H (high temperature range HP)	Z	P 1 K
B2H (high temperature range HP)	Z	P 1 L
C1H (high temperature range HP)	Z	P 1 M
C2H (high temperature range HP)	Z	P 1 N
D1H (high temperature range HP) ²⁾	Z	P 1 P
D2H (high temperature range HP) ²⁾	Z	P 1 Q
D4H (high temperature range HP) ²⁾	Z	P 1 R
Sensor for channel 2		
(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 °C to 65 °C (-41 °F to 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 (3")	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) Mounting frame and straps provided up to 1200 mm (48")	M	

Selection and Ordering data	Order No.	Ord. code
SITRANS FUS1010 Standard clamp-on		
• IP65 (NEMA 4X)	L) 7ME3530-	
• IP65 (NEMA 7) compact	L) 7ME3531-	
• IP66 (NEMA 7) wall mounted	L) 7ME3533-	
	0 -	
Sensor for channel 2 (continued)		
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") ²⁾	P	
D2H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾	Q	
D4H (high precision) Mounting frame and straps provided up to 1200 mm (48") ²⁾	R	
Doppler to 12" with strap kit (not for IP65 (NEMA 7))	S	
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
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 B
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 C
For the following B1H to D4H sensors, temperature range is -1 °C up to 104 °C (30 °F up to 220 °F), nominal 65 °C (150 °F):		
B1H (high temperature range HP)	Z	Q 1 K
B2H (high temperature range HP)	Z	Q 1 L
C1H (high temperature range HP)	Z	Q 1 M
C2H (high temperature range HP)	Z	Q 1 N
D1H (high temperature range HP) ²⁾	Z	Q 1 P
D2H (high temperature range HP) ²⁾	Z	Q 1 Q
D4H (high temperature range HP) ²⁾	Z	Q 1 R
Approvals		
FM/CSA, CE, C-TICK		1
ATEX, CE, C-TICK		2
INMETRO (Brazil)		3
¹⁾ 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). L) Subject to export regulations AL: N, ECCN: 5A991X.		

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Selection and Ordering data	Order code
Further designs	
Please add „-Z“ to Order No. and specify Order code(s).	
Cable assembly for sensors (add for No. of channels) See „Sensor cable selection chart“	K..
Cable assembly for RTDs (add for No. of RTDs) See „RTD cable selection chart“	R..
Cable termination kit (for one cable pair)	
• Termination for standard, plenum and armored sensor cable	T01
• Termination for submersible sensor cable	T11
• RTD cable termination kit for standard RTD	T21
• RTD cable termination kit for submersible RTD	T31
• Insert RTD cable termination kit	T41
Languages (Meter and Documentation), English (default)	
• German	B10
• French	B12
• Spanish	B13
• Italian	B14
Wet flow transfer calibration (priced on request)	
• 6 point up to 4 inch (DN 100)	D10
• 6 point up to 5 to 8 inch (DN 125 to DN 200)	D11
• 6 point up to 10 to 12 inch (DN 250 to DN 300)	D12
• 6 point up to 14 to 16 inch (DN 350 to DN 400)	D13
• 6 point up to 18 to 20 inch (DN 450 to DN 500)	D14
• 6 point up to 22 to 24 inch (DN 550 to DN 600)	D15
• 6 point up to 26 to 30 inch (DN 650 to DN 750)	D16
• 6 point up to 32 to 36 inch (DN 800 to DN 900)	D17
Tag name plate	
• Stainless steel tag with 3.2 mm (0.13 inch) character size (68 characters max.)	Y19
Operating Instructions for FUS1010	Order No.
English NEMA 4x & NEMA 7 Wall Mount	A5E02951520A
German NEMA 4x & NEMA 7 Wall Mount	A5E02951532A
NEMA 7 Compact	CQ0:1010XFM-3

MLFB example

Application example

A clamp-on meter is required for a 12" carbon steel jet fuel line, with a wall thickness of 12.7 mm (0.5"). Meter electronics are to be located in a Class I Div 2 area only 18 m (60 ft) from the pipeline. 12 V DC power is available at the site.

Dual path operation is desired for improved accuracy and redundant measurement.

MLFB Order No.: **7ME3530-2AB00-0QQ1-Z
K03 + K03**

Selection and Ordering data	Order No.	Ord. code
FUS1010 meter family	7 ME 3 5 3 - 0 -	
IP65 (NEMA 4X) enclosure	0	
Dual Path	2	
Standard I/O option	A	
9 ... 36 V DC power option	B	
RS232 Standard	0	
No RTD required	0	
Sensor code for path 1	Q	
Sensor code for path 2	Q	
FM approval required	1	
30 m (100 ft) sensor cable for path 1		K 0 3
30 m (100 ft) sensor cable for path 2		K 0 3



SITRANS FUS1010 Standard clamp-on

Sensor selection charts

Universal sensors for any pipe material					
Sensor	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	6 096	10	240

High precision sensors for steel pipe with outer diameter/wall thickness ratio >10					
Sensor	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	11.18	0.32	0.44
D2H	Q	11.18	15.75	0.44	0.62
D4H	R	15.75	31.75	0.62	1.25

Sensor cable selection chart

Sensor cable codes for length and type options				
Cable length m (ft)	Standard (PVC jacket) -40...+80 °C (-40...+176 °F)	Submersible (polyethylene jacket) -40...+80 °C (-40...+176 °F)	Plenum Rated (teflon jacket) -40...+200 °C (-40...+392 °F)	Armored -40...+80 °C (-40...+176 °F)
Order code				
6 (20)	K01¹⁾	K11	K21	K31
15 (50)	K02¹⁾	K12¹⁾	K22	K32¹⁾
30 (100)	K03¹⁾	K13¹⁾	K23	K33
46 (150)	K04¹⁾	K14	K24	K34
61 (200)	K05	K15	K25	K35
91 (300)	K06¹⁾	K16	K26	K36

RTD cable selection chart

RTD cable codes for length and type		
Cable length m (ft)	Standard (teflon wrapped) -40 ... +200 °C (-40 ... +392 °F)	Submersible (extruded jacket) -40 ... +200 °C (-40 ... +392 °F)
Order code		
6 (20)	R01¹⁾	R11
15 (50)	R02¹⁾	R12
30 (100)	R03¹⁾	R13
46 (150)	R04	R14
61 (200)	R05	R15
91 (300)	R06	R16

¹⁾ Standard MLFB for quick delivery

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