

# Flow Measurement

## SITRANS F US Clamp-on

### SITRANS FUG1010 (Gas)

#### Overview



SITRANS FUG1010 clamp-on non-intrusive ultrasonic flow transmitter is ideal for natural and process gas applications, including checkmetering, allocation, production, storage and gas fired power station applications.

SITRANS FUG1010 is available in single, dual and optional four path configurations, with your choice of IP65 (NEMA 4X) wall mount, IP65 (NEMA 7) compact explosionproof, and IP66 (NEMA 7) wall mount explosionproof enclosures.

#### Benefits

- Easy installation; no need to cut pipe or stop flow
- Minimal maintenance; external sensors do not require periodic cleaning
- No moving parts to foul or wear as found in turbine and PD meters
- Eliminates the pressure drop or energy loss in orifice metering
- Wide turn-down ratio
- Choice of single, dual or optional four path versions
  - Single path version reduces initial investment
  - Multiple path versions provide higher accuracy, especially with limited straight run and poor flow profile conditions
  - In diametric reflect mode configuration, the meter is less sensitive to crossflow and swirl
- Wide-Beam technology provides improved accuracy over a wide range of flow velocity and operating pressure
- ZeroMatic Path automatically sets zero without stopping flow and reduces zero drift, even at low flow
- Tolerant of most wet gas conditions
- Immune to most pressure reducing valve noise
- Optional rugged stainless steel sensor enclosure permits permanent and direct burial installations
- Easy to use "Si-Ware" diagnostic software

#### Application

SITRANS FUG1010 is ideal for most natural and process gas industry applications, including:

- Checkmetering
- Allocation
- Flow survey verification
- Lost and unaccounted for (LAUF) gas analysis
- Production
- Storage

#### Design

SITRANS FUG1010 is available in three enclosures:

- IP65 (NEMA 4X) wall mount enclosure constructed of fiber-glass reinforced polyester with stainless steel hardware and polyester keypad
  - Single path
  - Dual path
  - Four path (optional)
- IP65 (NEMA 7) compact explosionproof enclosure constructed of cast aluminum with glass window, stainless steel hardware
  - Single path
  - Dual path
- IP66 (NEMA 7) wall mount explosionproof enclosure constructed of cast aluminum stainless steel hardware, with glass window
  - Single path
  - Dual path
  - Four path (optional)

#### Function

- IP65 (NEMA 4X) and IP66 (NEMA 7) flow display transmitters have integral 33 button keypads and large (128 x 240 pixel) graphic displays visible up to 12 m (40 ft) away
- IP65 (NEMA 7) compact flow transmitter has a 2 x 16 alphanumeric LCD display
- Current, voltage, frequency and RS 232 outputs (see specification section for details)
- Analog inputs for pressure and temperature
- ZeroMatic Path automatically compensates for zero flow drift
- Bidirectional flow operation
- 1 Mbyte data logger with both site and data logger storage
- English, Spanish, German, Italian and French language options
- Internal AGA-8 table for fixed gas composition is available for standard volume computation.
- Complete application and operation diagnostics, to assure calibration and operational integrity
- Upward compatibility and compliance with AGA-10 speed of sound measurement practice

### Technical specifications

Input		Accuracy	
Flow range	± 30 m/s (± 100 ft/s), bidirectional	Typical accuracy	1 % ... 2 % of actual volume reading (higher accuracy is pipe condition and flow profile dependent)
Flow sensitivity	0.0003 m/s (0.001 ft/s), flow rate independent	Calibratable Accuracy	± 0.2 ... 0.5 % of flow
Minimum pressure	7 ... 10 bar (100 ... 145 psi), typical (gas composition and application dependent; plastic pipes support operation at atmospheric pressure)	Repeatability	0.05 % ... 0.1 %, of actual volume reading, for 1.5 ... 30 m/s (5 ... 100 ft/s) velocities (pipe condition dependent)
Pipe size	25 mm ... 1.52 m (1" ... 48") (for other sizes, consult factory)	Zero drift	0.0003 m/s (0.001 ft/s), with ZeroMatic Path active
Analog inputs	Current: 4 x 4 ... 20 mA, programmable (IP65 (NEMA 7) enclosure has 2 x 4 ... 20 mA, programmable)	Data refresh rate	5 Hz
Output		Rated operation conditions	
Standard outputs	<ul style="list-style-type: none"> <li>Current: 4 x 4 ... 20 mA, a programmable, standard Additional 2 x optional, except IP65 (NEMA 7)</li> <li>Voltage: 4 x 0 ... 10 V DC, menu programmable (None for IP65 (NEMA 7) enclosure)</li> <li>4 x Open collector digital pulses (quadrature) (None for IP65 (NEMA 7) enclosure)</li> <li>2 x 0 ... 5 kHz, TTL pulse square wave + (None for IP65 (NEMA 7) enclosure)</li> <li>1 x Optically isolated digital pulse &amp; source, IP65 (NEMA 7) enclosure only</li> <li>RS 232 Serial Port</li> </ul>	Degree of protection	<ul style="list-style-type: none"> <li>IP65 (NEMA 4X)</li> <li>IP65 (NEMA 7)</li> <li>IP66 (NEMA 7)</li> </ul>
Extended outputs	<ul style="list-style-type: none"> <li>MODBUS (RS 485/422/232) (not for IP65 (NEMA 7))</li> </ul>	Gas temperature	-40 ... +60 °C (-40 ... +140 °F) (for higher temperatures consult factory)
Status/Alarm I/O	<ul style="list-style-type: none"> <li>4 x programmable form C relays (not for IP65 (NEMA 7) enclosure)</li> <li>4 x programmable N.O. Mer. Wet. Relays optional (not for IP65 (NEMA 7) enclosure)</li> <li>2 x Optically coupled output logic gates (for IP65 (NEMA 7) enclosure, only)</li> <li>1 Totalizer clear switch input (not for IP65 (NEMA 7))</li> <li>1 Totalizer hold switch input (not for IP65 (NEMA 7) enclosure)</li> <li>1 x Opto iso. totalizer clear switch input (for IP65 (NEMA 7) enclosure, only)</li> <li>1 x Opto iso. totalizer hold switch input (for IP 65 (NEMA 7) enclosure, only)</li> </ul>	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	
		<ul style="list-style-type: none"> <li>For IP65 (NEMA 4X) and IP66 (NEMA 7)</li> <li>For IP65 (NEMA 7):</li> </ul>	<ul style="list-style-type: none"> <li>90 ... 240 V AC, 50 ... 60 Hz (30 VA) or 9 ... 36 V DC (12 W)</li> <li>90 ... 240 V AC, 50 ... 60 Hz (15 VA) or 9 ... 36 V DC (10 W)</li> </ul>
		Indication and operation	
		Data logger memory	1 Mbyte, programmable for 17 data functions
		Display	<ul style="list-style-type: none"> <li>IP65 (NEMA 4X) and IP66 (NEMA 7) enclosures</li> <li>IP65 (NEMA 7) enclosure</li> </ul>
		Keypad	<ul style="list-style-type: none"> <li>IP65 (NEMA 4X) and IP66 (NEMA 7) Enclosures</li> <li>IP65 (NEMA 7) Enclosure</li> </ul>
		Language options	English, Spanish, German, Italian, French

# Flow Measurement

## SITRANS F US Clamp-on

### SITRANS FUG1010 (Gas)

#### Certificates and approvals

##### IP65 (NEMA 4X) wall mount flow display transmitter ratings

FM and CSA

- Transmitter  
N-I Class I, Div 2  
S Class II, Div 2

- Sensor  
I.S. Class I, II, Div 1

CE

EMC Directive 2004/108/EC  
ATEX Directive 94/9/EC

C-TICK

ATEX

- 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 (Brazil)

- Transmitter:  
[BR-Ex ia] IIC  
BR-Ex nC [ia] IIC T5

- Sensors:  
BR-Ex ia IIC T5 IP65

IECEX

Pending

##### IP65 (NEMA 7) compact explosion-proof enclosure ratings

FM and CSA

- Transmitter  
XP Class I, Div 1  
D-I Class II, Div 1  
N-I Class I, Div 2  
S Class II, Div 2

- Sensor  
I.S. Class I, II, Div 1

CE

EMC Directive 2004/108/EC  
ATEX Directive 94/9/EC

C-TICK

ATEX

- Transmitter:  
Ex II 2 (1) G Ex d [ia] IIB + H2 T5

- Sensors:  
Ex II 1 G Ex ia IIC T5

INMETRO (Brazil)

- Transmitter:  
BR-Ex d [ia] IIB + H2 T5

- Sensors:  
BR-Ex ia IIC T5

IECEX

Pending

##### IP66 (NEMA 7) wall mount explosionproof enclosure ratings

FM and CSA

- Transmitter  
XP Class I, Div 1  
D-I Class II, Div 1  
N-I Class I, Div 2  
S Class II, Div 2

- Sensor  
I.S. Class I, II, Div 1

CE

EMC Directive 2004/108/EC  
ATEX Directive 94/9/EC

C-TICK

ATEX

- 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 (Brazil)

- Transmitter:  
[BR-Ex ia] IIC  
BR-Ex d [ia IIC] IIB T5

- Sensors:  
BR-Ex ia IIC T5

IECEX

Pending

## SITRANS FUG1010 (Gas)

### Standard MLFB for quick delivery on SITRANS FUG1010 (Gas)

Selection and Ordering data	Article No.	Order code
<b>SITRANS FUG1010 (Gas)</b>	<b>7ME361 - - - - 0 - - - -</b>	<b>K12 + K12 + R12</b>
<b>Design</b> IP65 (NEMA 4X) wall mount	0	
<b>Number of ultrasonic paths</b> Dual path	2	
<b>Flowmeter functions and I/O configurations</b> includes graphic or digital display  • Extended I/O option - additional 2 x 4 ... 20 mA - form C relays - 4 x digital pulse outputs (2 x open collector and 2 x 0 ... 5 V TTL)	B  B	
<b>Meter power options</b> 9 ... 36 V, DC (except compact NEMA 7)		
<b>Communication options</b> RS 232 (standard) MODBUS (dedicated only, excludes NEMA 7 compact)	0 1	
<b>RTD temperature sensor</b> (includes mounting hardware for pipes above 1.5"/38 mm OD)  No RTDs 1 x standard clamp-on RTD 2 x standard clamp-on RTD 1 x submersible clamp-on RTD 2 x submersible clamp-on RTD  Notes: 1. Temperature input is required for FUH systems 2. Only the Interface detector set up as a dual channel can use 2 RTD's		0 1 2 3 4
<b>Sensor for channel 1</b> (includes pipe mounting kit and spacer bar for indicated max. OD listed) See "Sensor selection charts" for specifications.  no sensor C2H (high precision)      Mounting frame and straps provided up to 1200 mm (48") D1H (high precision)      Mounting frame and straps provided up to 1200 mm (48") D2H (high precision)      Mounting frame and straps provided up to 1200 mm (48")		A N P Q
<b>Sensor for channel 2</b> (includes pipe mounting kit and spacer bar for indicated max. OD listed) See "Sensor selection charts" for specifications.  no sensor C2H (high precision)      Mounting frame and straps provided up to 1200 mm (48") D1H (high precision)      Mounting frame and straps provided up to 1200 mm (48") D2H (high precision)      Mounting frame and straps provided up to 1200 mm (48")		A N P Q
<b>Approvals</b> FM/CSA/CE (default) ATEX, CE, C-TICK		1 2

3

Standard MLFB product offering represents 4 to 6 weeks delivery time  
For sensor and RTD cables for quick delivery see tables at end of section.

# Flow Measurement

## SITRANS F US Clamp-on

### SITRANS FUG1010 (Gas)

#### Selection and Ordering data

##### SITRANS FUG1010 (Gas)

- IP65 (NEMA 4X) wall mount
- IP65 (NEMA 7) compact explosionproof
- IP66 (NEMA 7) wall mount explosionproof

Article No. Ord. code

7ME3610-

7ME3611-

7ME3613-

0 -

#### Number of channels/ultrasonic paths

Single path

1

Dual path

2

Special: 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)

IP65 (NEMA 4X) wall mount and IP66 (NEMA 7) wall mount explosionproof units

- Standard (all but NEMA 7 compact explosionproof)
  - Graphic display
  - 4 x 4 ... 20 mA analog input
  - 2 x 0 ... 10 V
  - 2 x 4 ... 20 mA analog output
  - 2 x pulse output
  - 4 x Form C relays
  - 2 x RTD input

A

- Extended I/O option
  - additional 2 x 4 ... 20 mA
  - Form C relays
  - 4 x digital pulse outputs (2 x open collector and 2 x 0 ... 5 V TTL)

B

IP65 (NEMA 7) compact explosionproof units

- Standard
  - Digital display
  - 2 x 4 ... 20 mA (loop)
  - 2 x 4 ... 20 mA analog input
  - 2 x status (open collector)
  - 1 x RTD input
- Digital pulse option
  - 1 x digital pulse open collector output

D

E

#### Meter power options

90 ... 240 V AC

A

9 ... 36 V DC (except NEMA 7 compact explosionproof)

B

9 ... 36 V DC negative GND (Compact only)

J

9 ... 36 V DC positive GND (Compact only)

K

#### Communication options

RS 232 (standard)

0

Standard MODBUS configurations include Baudrate: 9600, Parity: None, Stop Bits: 1, Data bits: 8, MODBUS data: 16 bit, Data format: word normal, Mode: RTU, and MODBUS format: Gould. For other configurations please select option 9 and L1Y and state requirements in plain text MODBUS (excludes NEMA 7 compact) Other Version, MODBUS, N2, Other Baud Rate, Other Parity, State in Plain Text

1

9

#### RTD temperature sensor

(includes mounting hardware for pipes above 1.5" 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

#### Selection and Ordering data

##### SITRANS FUG1010 (Gas)

- IP65 (NEMA 4X) wall mount
- IP65 (NEMA 7) compact explosionproof
- IP66 (NEMA 7) wall mount explosionproof

Article No. Ord. code

7ME3610-

7ME3611-

7ME3613-

0 -

#### Sensor for channel 1

(includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See "Sensor selection chart" for specifications.

no sensor

A

For the following B1H to D4H sensors, temperature range is -40 °C ... 65 °C (-41 °F ... 150 °F), nominal 21 °C (70 °F):

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

B3H (high precision) Trackmount and straps provided up to 125 mm (5")

T

C1H (high precision) Mounting frame and straps provided up to 1200 mm (48")<sup>1)</sup>

M

C2H (high precision) Mounting frame and straps provided up to 1200 mm (48")<sup>1)</sup>

N

D1H (high precision) Mounting frame and straps provided up to 1200 mm (48")<sup>1)</sup>

P

D2H (high precision) Mounting frame and straps provided up to 1200 mm (48")<sup>1)</sup>

Q

D3H (high precision) Mounting frame and straps provided up to 1200 mm (48")<sup>1)</sup>

U

D4H (high precision) Mounting frame and straps provided up to 1200 mm (48")<sup>1)</sup>

R

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

B3H (high temperature range HP)

Z

P 1 T

C1H (high temperature range HP)

Z

P 1 M

C2H (high temperature range HP)

Z

P 1 N

D1H (high temperature range HP)<sup>1)</sup>

Z

P 1 P

D2H (high temperature range HP)<sup>1)</sup>

Z

P 1 Q

D3H (high temperature range HP)<sup>1)</sup>

Z

P 1 U

D4H (high temperature range HP)<sup>1)</sup>

Z

P 1 R

<sup>1)</sup> Supplied spacer bar supports pipes up to 750 mm (30 inch). For pipes larger than 750 mm (30 inch) purchase also, spare part 7ME3960-0MS40 (1012BN-4).

# Flow Measurement SITRANS F US Clamp-on

## SITRANS FUG1010 (Gas)

3

Selection and Ordering data	Article No.	Ord. code
<b>SITRANS FUG1010 (Gas)</b>		
<ul style="list-style-type: none"> <li>• IP65 (NEMA 4X) wall mount</li> <li>• IP65 (NEMA 7) compact explosionproof</li> <li>• IP66 (NEMA 7) wall mount explosionproof</li> </ul>	<b>7ME3610-</b>	
	<b>7ME3611-</b>	
	<b>7ME3613-</b>	
	0 -	
<b>Sensor for channel 2</b> (includes pipe mounting kit and spacer bar for indicated max. outer diameter listed) See "Sensor selection chart" for specifications.		
no sensor		<b>A</b>
For the following B1H to D4H sensors, temperature range is -40 °C ... 65 °C (-41 °F ... 150 °F), nominal 21 °C (70 °F):		
B1H (high precision) Trackmount and straps provided up to 125 mm (5")		<b>K</b>
B2H (high precision) Trackmount and straps provided up to 125 mm (5")		<b>L</b>
B3H (high precision) Trackmount and straps provided up to 125 mm (5")		<b>T</b>
C1H (high precision) Mounting frame and straps provided up to 1200 mm (48") <sup>1)</sup>		<b>M</b>
C2H (high precision) Mounting frame and straps provided up to 1200 mm (48") <sup>1)</sup>		<b>N</b>
D1H (high precision) Mounting frame and straps provided up to 1200 mm (48") <sup>1)</sup>		<b>P</b>
D2H (high precision) Mounting frame and straps provided up to 1200 mm (48") <sup>1)</sup>		<b>Q</b>
D3H (high precision) Mounting frame and straps provided up to 1200 mm (48") <sup>1)</sup>		<b>U</b>
D4H (high precision) Mounting frame and straps provided up to 1200 mm (48") <sup>1)</sup>		<b>R</b>
Other versions (different size, mount, type or pipe larger than DN 1200 (48") or corrosion resistant), add Order code and plain text.	<b>Z</b>	<b>Q 1 Y</b>
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)	<b>Z</b>	<b>Q 1 K</b>
B2H (high temperature range HP)	<b>Z</b>	<b>Q 1 L</b>
B3H (high temperature range HP)	<b>Z</b>	<b>Q 1 T</b>
C1H (high temperature range HP)	<b>Z</b>	<b>Q 1 M</b>
C2H (high temperature range HP)	<b>Z</b>	<b>Q 1 N</b>
D1H (high temperature range HP)	<b>Z</b>	<b>Q 1 P</b>
D2H (high temperature range HP)	<b>Z</b>	<b>Q 1 Q</b>
D3H (high temperature range HP)	<b>Z</b>	<b>Q 1 U</b>
D4H (high temperature range HP)	<b>Z</b>	<b>Q 1 R</b>
<b>Approvals</b>		
FM/CSA/CE/C-TICK (default)		<b>1</b>
ATEX, CE, C-TICK		<b>2</b>
INMETRO (Brazil)		<b>3</b>

Selection and Ordering data	Order code
<b>Further designs</b>	
Please add "-Z" to Article No. and specify Order code(s).	
Cable assembly for sensors (add for # of paths) See "Sensor cable selection chart"	<b>K..</b>
Cable assembly for RTDs (add for # of RTDs) See "RTD cable selection chart"	<b>R..</b>
Cable termination kit (for one cable pair)	
• Termination for standard, plenum and armored sensor cable	<b>T01</b>
• Termination for submersible sensor cable	<b>T11</b>
• RTD cable termination kit for standard RTD	<b>T21</b>
• RTD cable termination kit for submersible RTD	<b>T31</b>
• Insert RTD cable termination kit	<b>T41</b>
Languages (Meter and Documentation) for compact NEMA 7	
• German	<b>B10</b>
• French	<b>B12</b>
• Spanish	<b>B13</b>
• Italian	<b>B14</b>
Tag name plate	
• Stainless steel tags with 3.2 mm (0.13 inch) characters (68 characters max.)	<b>Y19</b>

### MLFB example

#### Application example

A clamp-on meter is required for a 300 mm (12") carbon steel gas 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. Pulse output will be primary flow data source.

MLFB Article No.: **7ME3610-2BB00-0QQ1-Z  
K03 + K03**

Selection and Ordering data	Article No.	Ord. code
<b>SITRANS FUG1010 meter family</b>	<b>7ME3610-</b>	
IP65 (NEMA 4X) wall mount	0	
Dual path	2	
Custody Transfer option with digital pulse	B	
9 ... 36 V DC power option	B	
RS 232 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 cab. for path 1		<b>K 0 3</b>
30 m (100 ft) sensor cab. for path 2		<b>K 0 3</b>

# Flow Measurement

## SITRANS F US Clamp-on

### SITRANS FUG1010 (Gas)

Selection and Ordering data	Article No.
<b>Operating Instructions for SITRANS FUG1010</b>	
English NEMA 4X wall mount & NEMA 7 wall mount explosionproof	<b>A5E02951519</b>
German NEMA 4X wall mount & NEMA 7 wall mount explosionproof	<b>A5E02951531</b>
English NEMA 7 compact explosionproof	<b>CQO:1010GCXFM-3</b>

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>

#### High precision sensor selection chart IP68

Based on pipe wall thickness (steel pipes only)					
Sensor Pipe wall	Order Code	Pipe wall (mm)		Pipe wall (inch)	
		min.	max.	min.	max.
B1H	<b>K</b>	2.0	3.0	0.08	0.12
B2H	<b>L</b>	3.0	4.1	0.12	0.16
B3H	<b>T</b>	2.7	3.3	0.106	0.128
C1H	<b>M</b>	4.1	5.8	0.16	0.23
C2H	<b>N</b>	5.8	8.1	0.23	0.32
D1H	<b>P</b>	8.1	11.2	0.32	0.44
D2H	<b>Q</b>	11.2	15.7	0.44	0.62
D3H	<b>U</b>	7.4	9.0	0.293	0.354
D4H	<b>R</b>	15.7	31.8	0.62	1.25

#### Sensor Cable (pair) Selection Chart

Sensor cable codes for length and type options				
Cable length m (ft)	Standard (PVC jacket)	Submersible (polyethylene jacket)	Plenum Rated (teflon jacket)	Armored
	-40...+80 °C (-40...+176 °F)	-40...+80 °C (-40...+176 °F)	-40...+200 °C (-40...+392 °F)	-40...+80 °C (-40...+176 °F)
Order code				
6 (20)	<b>K01<sup>1)</sup></b>	<b>K11</b>	<b>K21</b>	<b>K31</b>
15 (50)	<b>K02</b>	<b>K12<sup>1)</sup></b>	<b>K22</b>	<b>K32<sup>1)</sup></b>
30 (100)	<b>K03<sup>1)</sup></b>	<b>K13<sup>1)</sup></b>	<b>K23</b>	<b>K33</b>
46 (150)	<b>K04<sup>1)</sup></b>	<b>K14</b>	<b>K24</b>	<b>K34</b>
61 (200)	<b>K05</b>	<b>K15</b>	<b>K25</b>	<b>K35</b>
91 (300)	<b>K06<sup>1)</sup></b>	<b>K16</b>	<b>K26</b>	<b>K36</b>

#### RTD Cable (single) Selection Chart

RTD cable codes for length and type		
Cable length m (ft)	Standard (teflon wrapped)	Submersible (extruded jacket)
	-40 ... +200 °C (-40 ... +392 °F)	-40 ... +200 °C (-40 ... +392 °F)
Order code		
6 (20)	<b>R01<sup>1)</sup></b>	<b>R11</b>
15 (50)	<b>R02<sup>1)</sup></b>	<b>R12</b>
30 (100)	<b>R03<sup>1)</sup></b>	<b>R13</b>
46 (150)	<b>R04</b>	<b>R14</b>
61 (200)	<b>R05</b>	<b>R15</b>
91 (300)	<b>R06</b>	<b>R16</b>

<sup>1)</sup> Standard MLFB for quick deliver