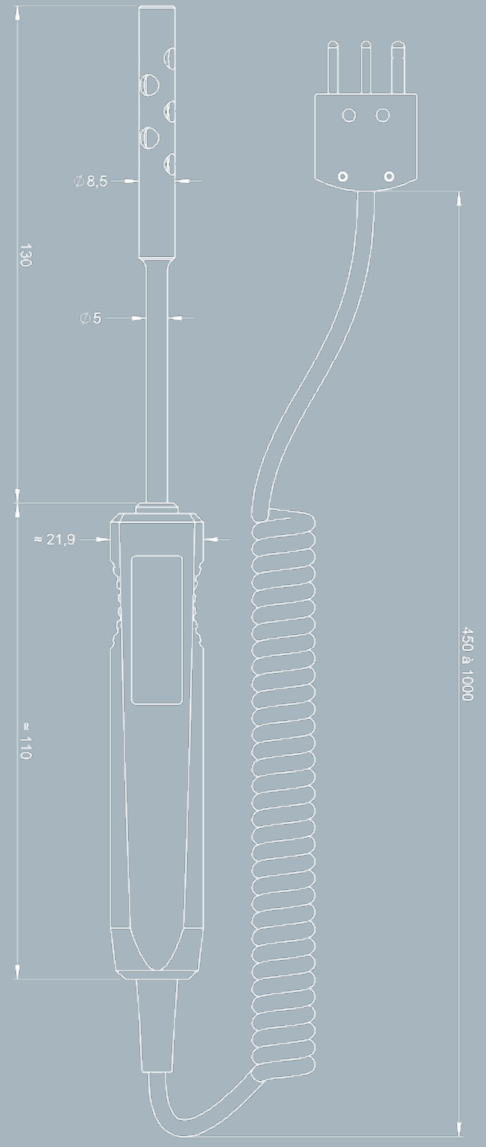
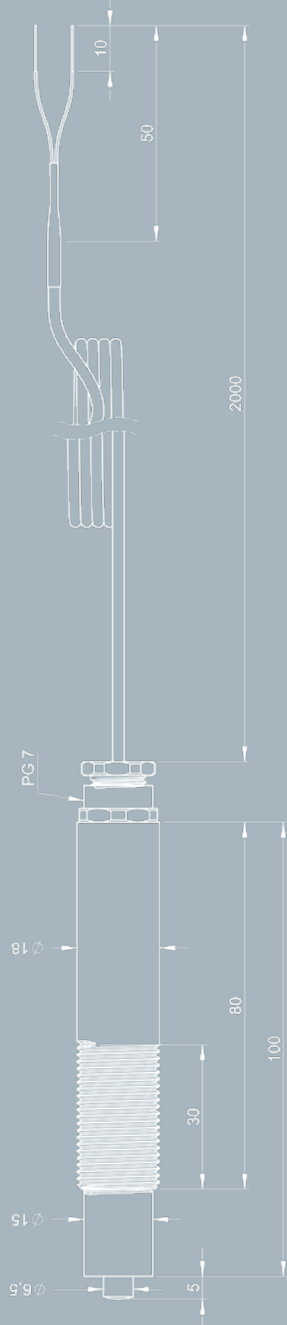
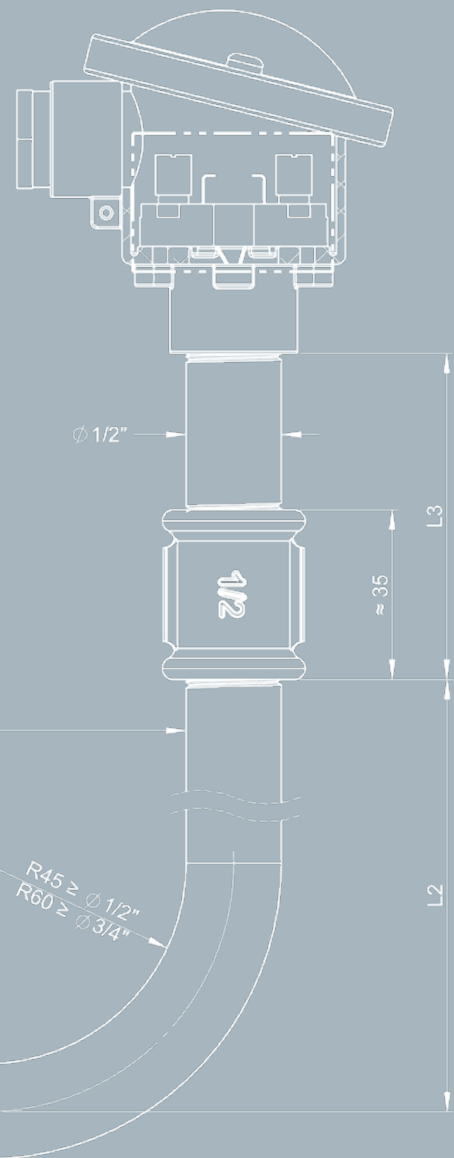
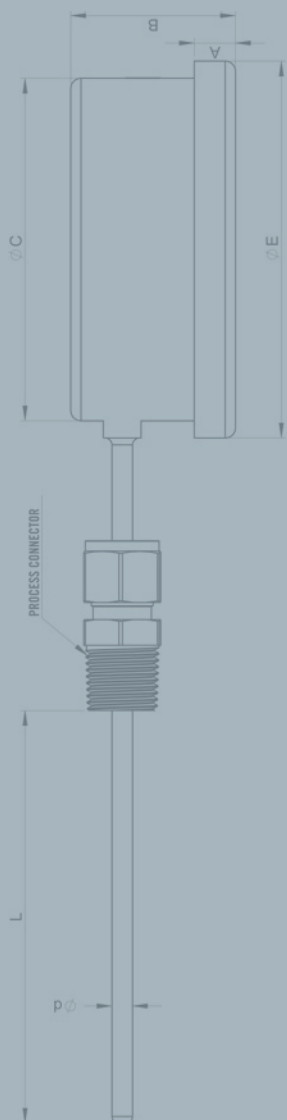
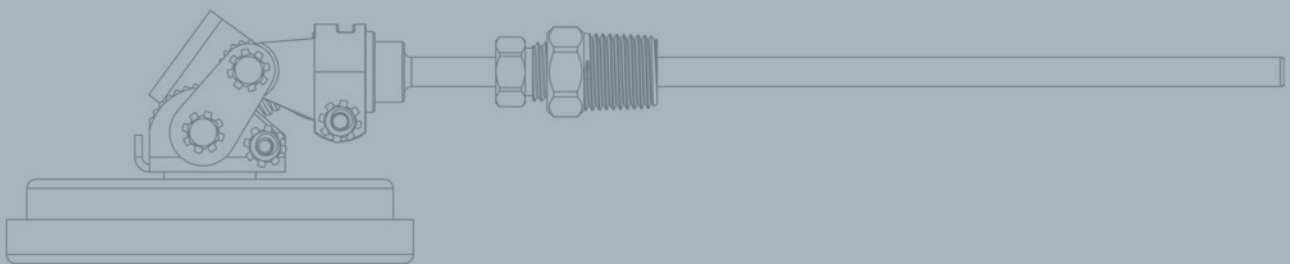
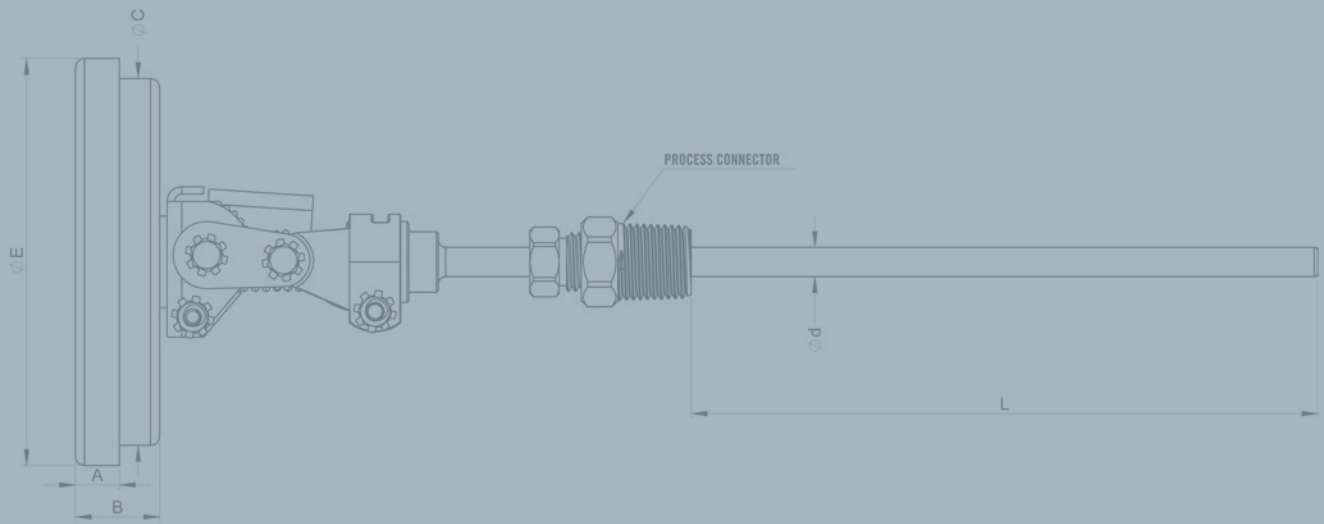


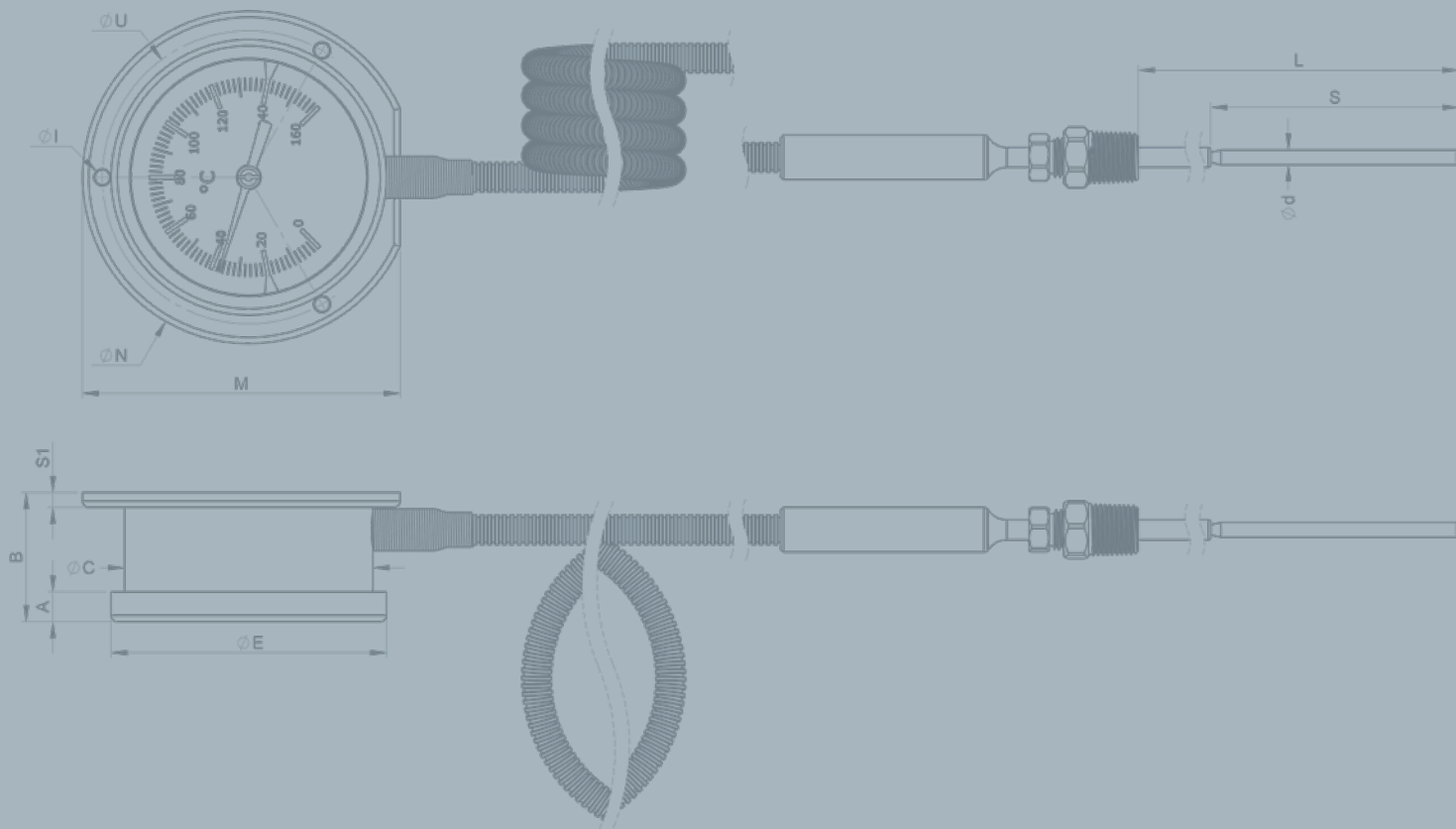
# SENSORS CATALOGUE

TEMPERATURE MEASUREMENT IN INDUSTRIAL ENVIRONMENTS





# BIMETALLIC THERMOMETERS



## ATEX BIMETALLIC THERMOMETER

**302**

TBM1

## BIMETALLIC THERMOMETER WITH MULTIDIRECTIONAL DIAL

**306**

TBM2

## GAS EXPANSION THERMOMETER

**310**

TDG1

# TBM1

## ATEX

IMMERSED  
UP TO  
1500 MM

DIAL  
DIAMETER  
50 TO  
150 MM

IP  
67

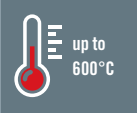
CLASS  
1

### DESCRIPTION

ATEX bimetallic thermometer, with adjustable zero available as an option. For corrosive liquids and gases in the agri-food industry, pharmacy, chemicals, petrochemicals and the nuclear sector.

### SPECIFICATIONS

<b>Accuracy class</b>		Class 1 (CL 1.0)
<b>Ambient temperature</b>		-20...+60 °C
<b>Storage temperature</b>		-50...+70 °C
<b>Scale overrun</b>		110 % of full scale (E.m.)
<b>Plunger PN</b>		25 bar (without thermowell)
<b>Weld seams</b>		Arc welding / Argon TIG
<b>Measuring element</b>		Helicoidal bimetallic
<b>Materials</b>	Casing and frame	Stainless steel AISI 304
	Plunger and connector	Stainless steel AISI 316
	Dial	Aluminium, black graduations on white background
	Needle	Aluminium, black coating, adjustable zero
	Window	Glass, SEKURIT glass
	Seals	Neoprene
<b>Process connection</b>		1/2" NPT or BsP / male, 1/2" NPT / female
		1/4" NPT or BsP / male (for plunger $\varnothing \leq 6.35$ mm)
		3/8" BsP / male (for plunger $\varnothing \leq 10$ mm)
		3/4" NPT or BsP / male, 3/4" NPT / female
		m20 x 1.5 / male, m27 x 2 / male
<b>Protection</b>		IP 65, IP 66, IP 67, hermetically sealed



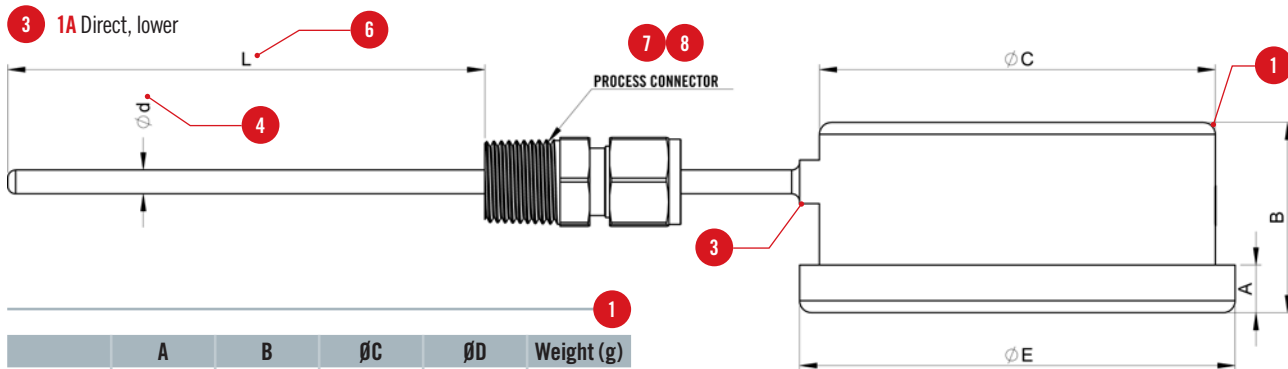
# DESIGN YOUR THERMOMETER

## CONFIGURATOR CODE

Parameters to be indicated when ordering

STANDARD MODEL	CASING	RANGE	MOUNTING	IMMERSED $\varnothing$	PROT.	IMMERSED LENGTH	PROCESS CONNECTION TYPE	PROCESS CONNECTOR	OPTION
TBM1	-	-	-	-	-	-	-	-	-
Reference in table and diagram	1	2	3	4	5	6	7	8	9
Possible choice	50 63 80 100 125 150	EA1 / EA2 / EB2 / EB3 ED1 / EE1 / EG1 / EG2 EG3 / EG4 / EG5 / EG6 EG8 / EG9 / EH1 / EH2 EH3 / EH4	1A 2A	60 14 80 95 10 12	P5 P6 P7 HS	50 mm to 1500 mm	RX RG RT	NM12 / BM12 NM14 / BM14 MM20 / BM38 TR15 / NM34 BM34 / NM27 NF12 / NF34	1 / 2 3 / 4 5 / 6 7 / A B / C

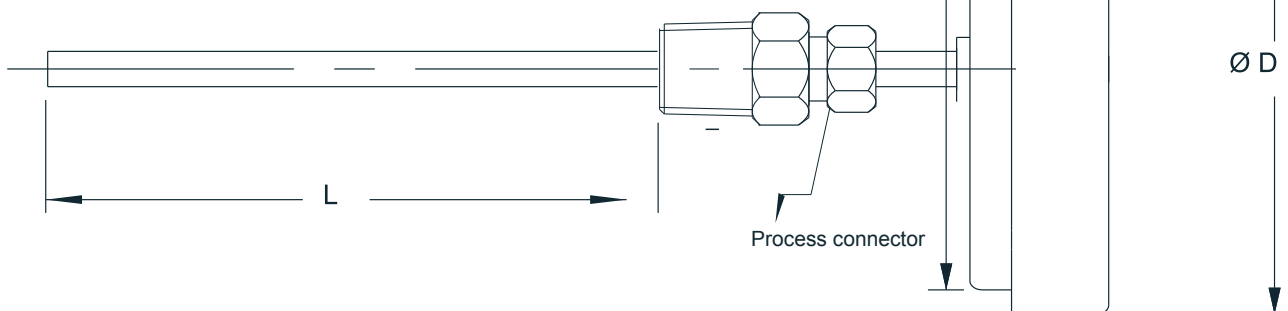
## DIAGRAM



	A	B	$\varnothing C$	$\varnothing D$	Weight (g)
63	12	48	62.5	70	280
80	9.5	48	80	89.5	350
100	12	48	100	111	500
125	15	48	118.5	129	580
150	15	48	149	161	800

**3 2A Centre, rear**

	A	B	$\varnothing C$	$\varnothing D$	Weight (g)
50	6.5	23	51.5	57.5	108
63	10	23	62.5	70	156
80	9.5	23	80	89.5	244
100	12	23	100	111	518
125	15	23	118.5	129	585
150	15	23	149	161	625



**CASING**

<b>050</b>	50mm / 2"	<b>100</b>	100mm / 4"
<b>063</b>	63mm / 2"1/2	<b>125</b>	125mm / 4"1/2
<b>080</b>	80mm / 3"	<b>150</b>	150mm / 6"

**MEASUREMENT RANGE (°C)**

<b>EA1</b>	-20...+40 °C	<b>EG1</b>	0...+50 °C	<b>EG8</b>	0...+200 °C
<b>EA2</b>	-20...+60 °C	<b>EG2</b>	0...+60 °C	<b>EG9</b>	0...+250 °C
<b>EB2</b>	-30...+70 °C	<b>EG3</b>	0...+80 °C	<b>EH1</b>	0...+300 °C
<b>EB3</b>	-30...+120 °C	<b>EG4</b>	0...+100 °C	<b>EH2</b>	0...+400 °C
<b>ED1</b>	-50...+100 °C	<b>EG5</b>	0...+120 °C	<b>EH3</b>	0...+500 °C
<b>EE1</b>	-80...+120 °C	<b>EG6</b>	0...+150 °C	<b>EH4</b>	0...+600 °C

**MOUNTING**

<b>1A</b>	Direct, lower	<b>2A</b>	Centre, rear
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**IMMERSED DIAMETER**

<b>60</b>	6.0 mm	<b>95</b>	9.5 mm
<b>14</b>	1/4" (6.35mm)	<b>10</b>	10 mm
<b>80</b>	8.0 mm	<b>12</b>	12 mm

**PROTECTION**

<b>P5</b>	IP65	<b>P7</b>	IP67
<b>P6</b>	IP66	<b>HS</b>	Hermetically sealed

**IMMERSED LENGTH**

<b>xxxx</b>	50 mm to 1500 mm
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**MIN. IMMERSED LENGTH**

Immersed diameter	6 mm - 1/4"	8 mm	10 mm	12 mm
Measurement range (°C)	Min. immersed length (mm)			
0...50	130	110	110	110
0...60	110	95	95	95
0...80	95	70	70	70
0...100	75	70	70	70
0...120	70	60	60	60
0...150	60	50	50	50
0...200	50	45	45	45
0...250	40	35	35	35
0...300	60	50	50	50
0...400	50	45	45	45
0...500	45	40	40	40
0...600	40	35	35	35

**PROCESS CONNECTION TYPE**

<b>RX</b>	Fixed	<b>RG</b>	Adjustable	<b>RT</b>	Pivoting / Rotary
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**PROCESS CONNECTOR**

<b>NM12</b>	1/2"NPT (M)	<b>MM20</b>	M20*1.5mm (M)	<b>BM34</b>	3.4" BSP (M)
<b>BM12</b>	1/2"BSP(M)	<b>BM38</b>	3/8" BSP (M)	<b>NM27</b>	M27 x 1.5mm (M)
<b>NM14</b>	1/4"NPT(M)	<b>TR15</b>	1.5" Triclover	<b>NF12</b>	1/2"NPT (F)
<b>BM14</b>	1/4"BSP (M)	<b>NM34</b>	3/4"NPT (M)	<b>NF34</b>	3/4"NPT (F)

**OPTIONS**

Several options are available; they should be indicated one after the other.

<b>1</b>	316L casing and ring
<b>2</b>	SEKURIT window
<b>3</b>	External adjustment of zero
<b>4</b>	Priming liquid (silicone oil -200°C)
<b>5</b>	Priming liquid (glycerine -65°C)
<b>6</b>	VITON seal
<b>7</b>	Certificate 2.2
<b>A</b>	316L label
<b>B</b>	304L label
<b>C</b>	Label on casing

For any other configuration, please contact us.

# TBM2

## WITH MULTIDIRECTIONAL DIAL

MULTIDIRECTIONAL

IMMERSED  
UP TO  
1500 MM

DIAL  
DIAMETER  
80 TO  
150 MM

IP  
67

### DESCRIPTION

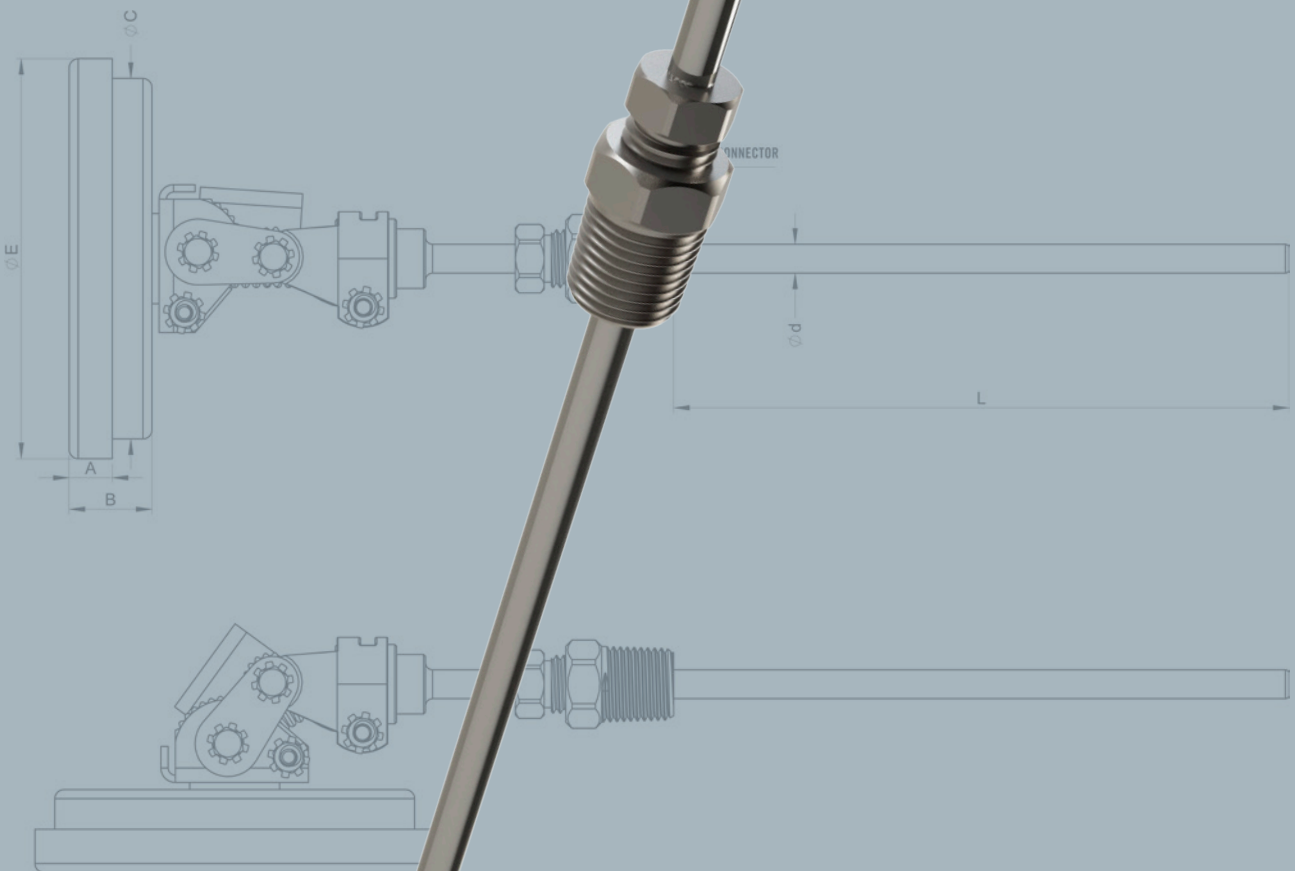
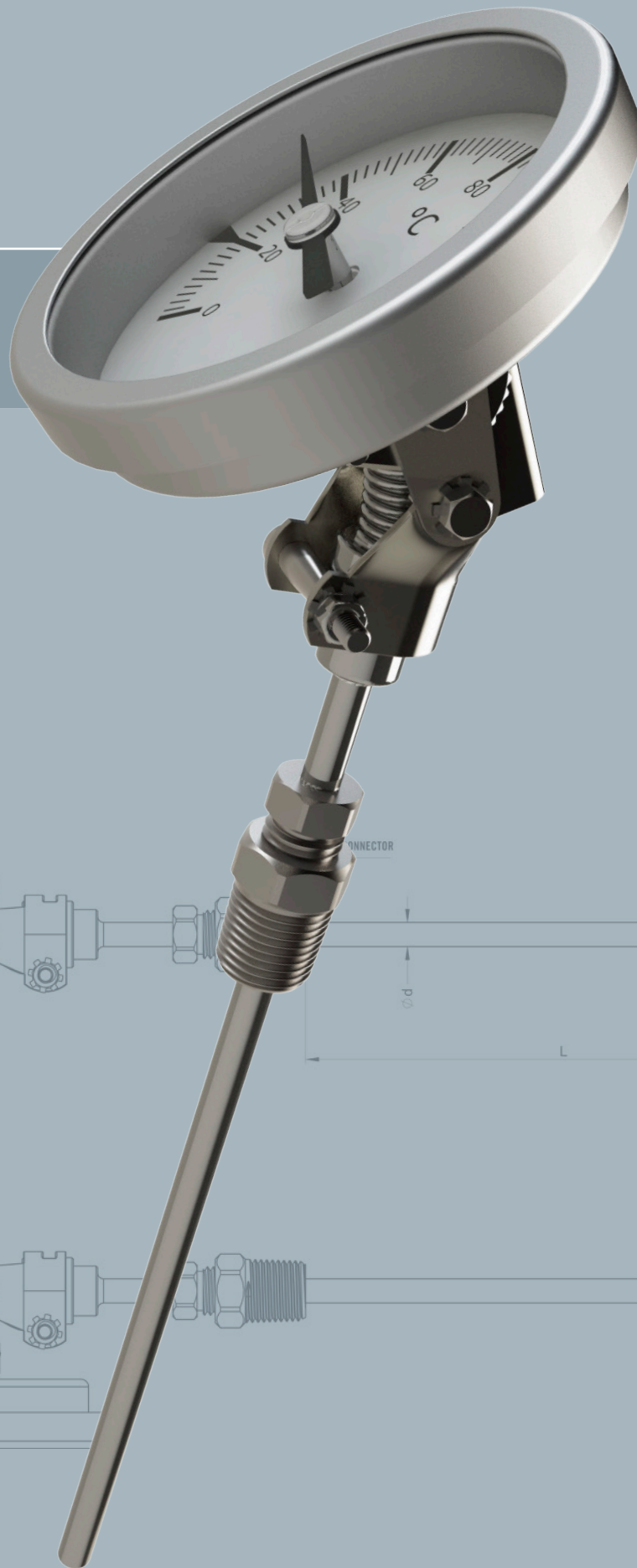
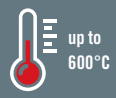
Bimetallic thermometer with multidirectional dial. Adjustable zero. For corrosive liquids and gases in the agri-food industry, pharmacy, chemicals, petrochemicals and the nuclear sector.

### SPECIFICATIONS

<b>Accuracy class</b>		Class 1 (CL 1.0)
<b>Ambient temperature</b>		-20...+60 °C
<b>Storage temperature</b>		-50...+70 °C
<b>Scale overrun</b>		110 % of full scale (E.m.)
<b>Plunger PN</b>		25 bar (without thermowell)
<b>Weld seams</b>		Arc welding / Argon TIG
<b>Measuring element</b>		Helicoidal bimetallic
<b>Materials</b>	Casing and window	Stainless steel AISI 304
	Plunger and connector	Stainless steel AISI 316
	Dial	Aluminium, black graduations on white background
	Needle	Aluminium, black coating, adjustable zero
	Window	Glass, SEKURIT glass
	Seals	Neoprene
<b>Process connection</b>		1/2" NPT or BsP / male
		1/4" NPT or BsP / male (for plunger $\varnothing \leq 6.35$ mm)
		3/8" BsP / male (for plunger $\varnothing \leq 10$ mm)
		3/4" NPT or BsP / male
<b>Protection</b>		m20 x 1.5 / male, m27 x 2 / male IP 65, IP 66, IP 67



CLASS  
1



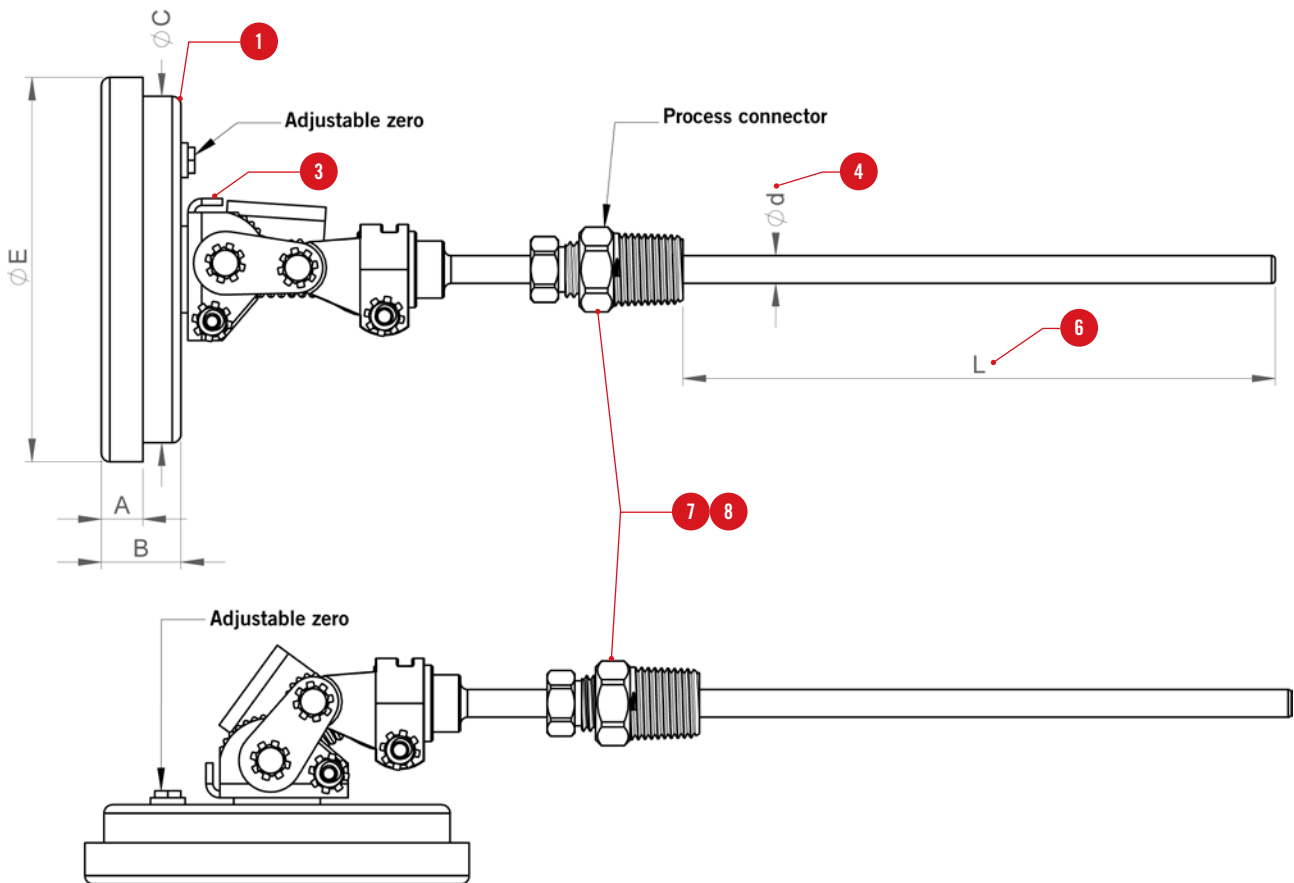
# DESIGN YOUR THERMOMETER

## CONFIGURATOR CODE

Parameters to be indicated when ordering

STANDARD MODEL	CASING	RANGE	MOUNTING	IMMERSED $\varnothing$	PROT.	IMMERSED LENGTH	PROCESS CONNECTION TYPE	PROCESS CONNECTOR	OPTION
TBM1	-	-	-	-	-	-	-	-	-
Reference in table and diagram	1	2	3	4	5	6	7	8	9
Possible choice	80 100 125 150	EA1 / EA2 / EB2 / EB3 EG1 / EG2 / EG3 / EG4 EG5 / EG6 / EG8 / EG9 EH1 / EH2 / EH3 / EH4	2D	60 14 80 95 10 12	P5 P6 P7 HS	110 mm to 1500 mm	RX RG RT	NM12 / BM12 NM14 / BM14 NM20 / BM38 TR15 / NM34 BM34 / NM27	1 / 2 3 / 4 5 / 6 7 / A B / C

## DIAGRAM



1

	A	B	$\varnothing C$	$\varnothing D$	Weight (g)
80	9.5	23	80	89.5	-
100	12	23	100	111	-
125	15	23	118.5	129	662
150	15	23	149	161	839

**CASING**

1

<b>080</b>	80mm / 3"	<b>125</b>	125mm / 4"1/2
<b>100</b>	100mm / 4"	<b>150</b>	150mm / 6"

**MEASUREMENT RANGE (°C)**

2

<b>EA1</b>	-20...+40 °C	<b>EG3</b>	0...+80 °C	<b>EH1</b>	0...+300 °C
<b>EA2</b>	-20...+60 °C	<b>EG4</b>	0...+100 °C	<b>EH2</b>	0...+400 °C
<b>EB2</b>	-30...+70 °C	<b>EG5</b>	0...+120 °C	<b>EH3</b>	0...+500 °C
<b>EB3</b>	-30...+120 °C	<b>EG8</b>	0...+200 °C	<b>EH4</b>	0...+600 °C
<b>EG1</b>	0...+50 °C	<b>EG9</b>	0...+250 °C		
<b>EG2</b>	0...+60 °C	<b>EG6</b>	0...+150 °C		

**MOUNTING**

3

<b>2D</b>	Centre, rear, multidirectional
-----------	--------------------------------

**IMMERSED DIAMETER**

4

<b>60</b>	6.0 mm	<b>95</b>	9.5 mm
<b>14</b>	1/4" (6,35mm)	<b>10</b>	10 mm
<b>80</b>	8.0 mm	<b>12</b>	12 mm

**PROTECTION**

5

<b>P5</b>	IP65	<b>P7</b>	IP67
<b>P6</b>	IP66	<b>HS</b>	Hermetically sealed

**IMMERSED LENGTH**

6

<b>xxxx</b>	110 mm to 1500 mm
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**MIN. IMMERSED LENGTH**

6

Immersed diameter	6 mm - 1/4"	8 mm	10 mm	12 mm
	Min. immersed length (mm)			
0...50	130	110	110	110
0...60	110	95	95	95
0...80	95	70	70	70
0...100	75	70	70	70
0...120	70	60	60	60
0...150	60	50	50	50
0...200	50	45	45	45
0...250	40	35	35	35
0...300	60	50	50	50
0...400	50	45	45	45
0...500	45	40	40	40
0...600	40	35	35	35

**PROCESS CONNECTION TYPE**

7

<b>RX</b>	Fixed	<b>RG</b>	Adjustable	<b>RT</b>	Pivoting / Rotary
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**PROCESS CONNECTOR**

8

<b>NM12</b>	1/2"NPT (M)	<b>MM20</b>	M20*1.5mm (M)	<b>BM34</b>	3.4" BSP (M)
<b>BM12</b>	1/2"BSP(M)	<b>BM38</b>	3/8" BSP (M)	<b>NM27</b>	M27 x 1.5mm (M)
<b>NM14</b>	1/4"NPT(M)	<b>TR15</b>	1.5" Triclover		
<b>BM14</b>	1/4"BSP (M)	<b>NM34</b>	3/4"NPT (M)		

**OPTIONS**

9

Several options are available. They should be indicated one after the other.

<b>1</b>	316L casing and ring
<b>2</b>	SEKURIT window
<b>3</b>	External adjustment of zero
<b>4</b>	Priming liquid (silicone oil -200°C)
<b>5</b>	Priming liquid (glycerine -65°C)
<b>6</b>	VITON seal
<b>7</b>	Certificate 2.2
<b>A</b>	316L label
<b>B</b>	304L label
<b>C</b>	Label on casing

For any other configuration, please contact us.

# TDG1

## GAS EXPANSION THERMOMETER

CAPILLARY  
UP TO  
25 M

IMMERSED  
UP TO  
2 M

DIAL  
DIAMETER  
100 TO  
250 MM

IP  
67

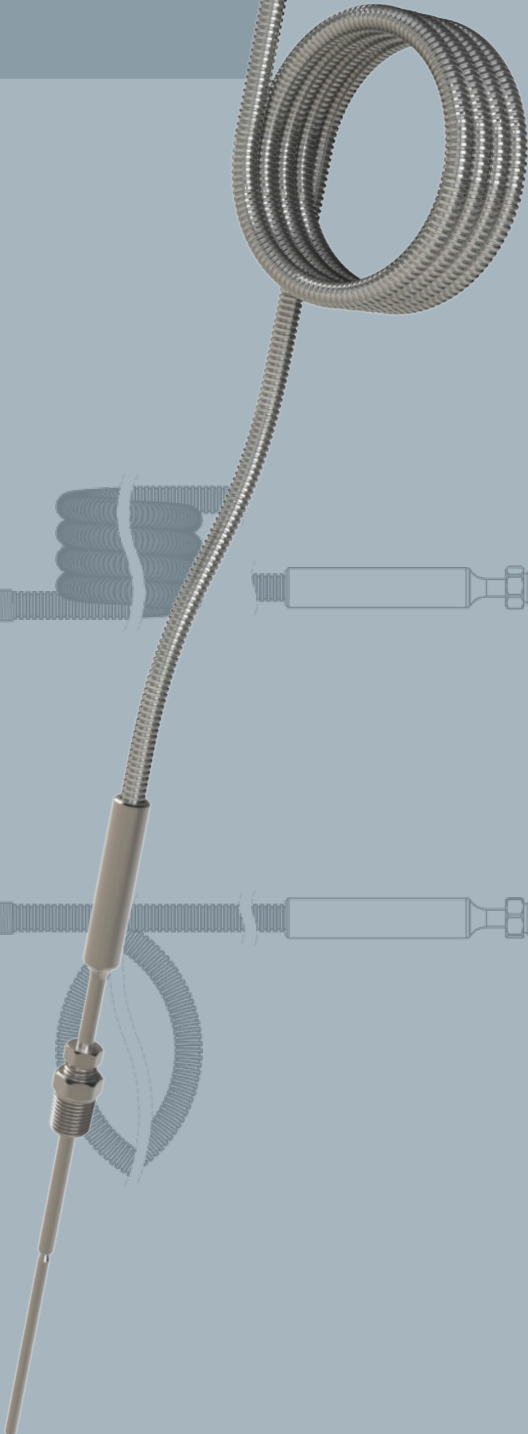
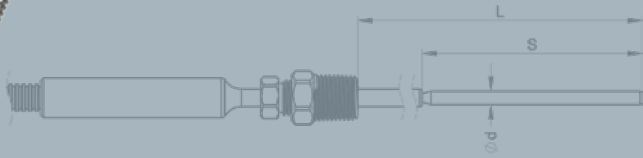
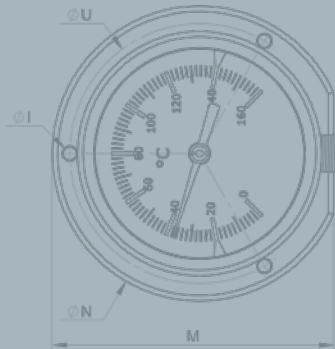
### DESCRIPTION

Gas expansion thermometer. Multiple mounting possibilities. For corrosive liquids and gases in the chemicals and petrochemicals sectors.

### SPECIFICATIONS

<b>Accuracy class</b>		Class 1 (CL 1.0)
<b>Ambient temperature</b>		0...40 °C
<b>Storage temperature</b>		-50...+70 °C (without filler liquid)   -20...+60 °C (with filler liquid)
<b>Scale overrun</b>		110 % of full scale (E.m.)
<b>Plunger PN</b>		25 bar (without thermowell)
<b>Weld seams</b>		arc welding / Argon TIG
<b>Measuring element</b>		Capsule of inert, non-toxic gas
<b>Materials</b>	Casing and window	Stainless steel AISI 304
	Plunger and connector	Stainless steel AISI 316
	Dial	Aluminium, black graduations on white background
	Needle	Aluminium, black coating, adjustable zero
	Window	Glass or SEKURIT glass (depending on filling)
	Seals	Neoprene or NBR (depending on filling)
<b>Process connection</b>		1/2" NPT or BsP / male
		1/4" NPT or BsP / male (for plunger $\varnothing \leq 6.35$ mm)
		3/8" BsP / male (for plunger $\varnothing \leq 10$ mm)
		m20 x 1.5 / male
<b>Protection</b>		IP 65, IP 66, IP 67

CLASS  
1



# DESIGN YOUR THERMOMETER

## CONFIGURATOR CODE

Parameters to be indicated when ordering

MODEL TYPE	CASING	RANGE	MOUNTING	∅ IMMERSED	PROTECTION	IMMERSED LENGTH
TDG1	-	-	-	-	-	-
Reference in table and diagram	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Possible choice	100 125 150 250	EA1 / EA2 / EA3 / EA4 / EA5 / EA6 EB1 / EB2 / EC1 / EC2 / ED1 / EF1 EG1 / EG2 / EG3 / EG4 / EG5 / EG6 EG7 / EG8 / EG9 / EH1 / EH2 / EH3 EH4 / EH5 / EJ1 / EK1 / EK2	1A / 1B / 1C 1D / 2A / 2D	60 / 14 80 / 95 10 / 12	P5 P6 P7 HS	100 mm to 2000 mm

## DIAGRAM

**3 1A Lower output**

<b>1</b>	A	B	∅C	∅D
100	12	48	111	100
125	15	48	129	118,5

**3 1B**

<b>1</b>	A	B	∅C	∅D
150	15	48	161	149
250	18,5	50	263	250

**3 1C**

<b>1</b>	A	B	∅C	∅D	∅I	∅N	M	S1	∅U
100	12	52	111	100	6	134	128	6	118
125	15	50	129	118.5	6	150	143.5	4	137
150	15	52	161	149	6	186	172.4	6	168
250	18.5	51.5	263	250	7	290	286.5	1.5	276

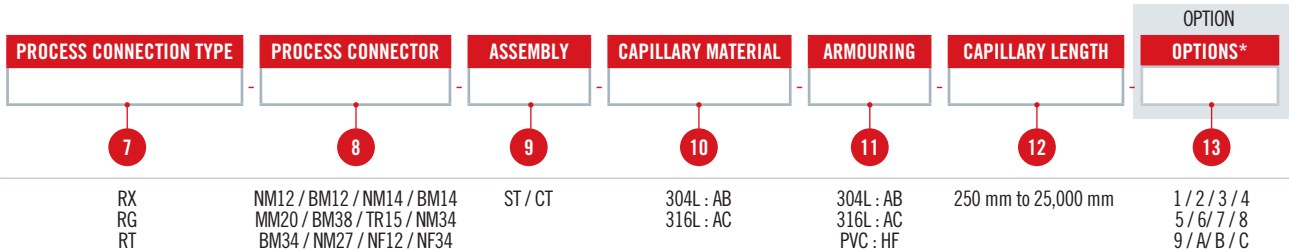
**3 1D**

<b>1</b>	A	B	∅C	∅D	F	G	H	J	K
For casing dimensions, please see 1A, 1B					129	69	39	101	161

**3 2A Central output**

**3 2B**

For casing dimensions, please see 1A, 1B



**CASING**

<b>100</b>	100mm / 4"	<b>150</b>	150mm / 6"
<b>125</b>	125mm / 4"1/2	<b>250</b>	250mm / 10"

**MEASUREMENT RANGE (°C)**

<b>EA1</b>	-20...+40 °C	<b>ED1</b>	-50...+100°C	<b>EG9</b>	0...+250 °C
<b>EA2</b>	-20...+60 °C	<b>EF1</b>	-100...+60°C	<b>EH1</b>	0...+300 °C
<b>EA3</b>	-20...+80 °C	<b>EG1</b>	0...+50 °C	<b>EH2</b>	0...+400 °C
<b>EA4</b>	-20...+100 °C	<b>EG2</b>	0...+60 °C	<b>EH3</b>	0...+500 °C
<b>EA5</b>	-20...+120 °C	<b>EG3</b>	0...+80 °C	<b>EH4</b>	0...+600 °C
<b>EA6</b>	-20...+180 °C	<b>EG4</b>	0...+100 °C	<b>EH5</b>	0...+650 °C
<b>EB1</b>	-30...+50 °C	<b>EG5</b>	0...+120 °C	<b>EJ1</b>	50...+650 °C
<b>EB2</b>	-30...+70 °C	<b>EG6</b>	0...+150 °C	<b>EK1</b>	100...+600 °C
<b>EC1</b>	-40...+40 °C	<b>EG7</b>	0...+160 °C	<b>EK2</b>	150...+700 °C
<b>EC2</b>	-40...+60 °C	<b>EG8</b>	0...+200 °C		

**MOUNTING**

<b>Lower output</b>		<b>Central output</b>	
<b>1A</b>	Direct	<b>2A</b>	Rear
<b>1B</b>	Multidirectional	<b>2D</b>	Multidirectional
<b>1C</b>	Mounting on wall / surface		
<b>1D</b>	2" pipe mounting		

**IMMERSED DIAMETER**

<b>60</b>	6.0 mm	<b>95</b>	9.5 mm
<b>14</b>	1/4" (6.35mm)	<b>10</b>	10 mm
<b>80</b>	8.0 mm	<b>12</b>	12 mm

**PROTECTION**

<b>P5</b>	IP65	<b>P7</b>	IP67
<b>P6</b>	IP66	<b>HS</b>	Hermetically sealed

**IMMERSED LENGTH**

<b>xxxx</b>	100 mm to 2000 mm
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**PROCESS CONNECTION TYPE**

<b>RX</b>	Fixed	<b>RG</b>	Adjustable	<b>RT</b>	Pivoting / Rotary
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**PROCESS CONNECTOR**

<b>NM12</b>	1/2"NPT (M)	<b>MM20</b>	M20*1.5mm (M)	<b>BM34</b>	3.4" BSP (M)
<b>BM12</b>	1/2"BSP(M)	<b>BM38</b>	3/8" BSP (M)	<b>NM27</b>	M27 x 1.5mm (M)
<b>NM14</b>	1/4"NPT(M)	<b>TR15</b>	1.5" Triclover	<b>NF12</b>	/2"NPT (F)
<b>BM14</b>	1/4"BSP (M)	<b>NM34</b>	3/4"NPT (M)	<b>NF34</b>	3/4"NPT (F)

**ASSEMBLY**

<b>ST</b>	direct (plunger)	<b>CT</b>	remote (capillary)
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**CAPILLARY MATERIAL**

<b>AB</b>	304L	<b>AC</b>	316L
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**ARMOURING**

<b>AB</b>	304 L	<b>AC</b>	316 L	<b>HF</b>	PVC (Max. ambient temp. 60°C)
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**CAPILLARY LENGTH**

<b>xxxx</b>	250 to 25,000mm
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**OPTIONS**

Several options are available. They should be indicated one after the other.

<b>1</b>	316L casing and ring
<b>2</b>	SEKURIT window
<b>3</b>	External adjustment of zero
<b>4</b>	Priming liquid (silicone oil -200°C)
<b>5</b>	Priming liquid (glycerine -65°C)
<b>6</b>	VITON seal
<b>7</b>	Certificate 2.2
<b>8</b>	Filling with helium
<b>9</b>	Maximum reading pointer
<b>A</b>	316L label
<b>B</b>	304L label
<b>C</b>	Label on casing

For any other configuration, please contact us.



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