

Алматы (7273)495-231	Иваново (4932)77-34-06	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Тверь (4822)63-31-35
Ангарск (3955)60-70-56	Ижевск (3412)26-03-58	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тольятти (8482)63-91-07
Архангельск (8182)63-90-72	Иркутск (395)279-98-46	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Астрахань (8512)99-46-04	Казань (843)206-01-48	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)33-79-87
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Нижний Новгород (831)429-08-12	Саранск (8342)22-96-24	Тюмень (3452)66-21-18
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Новокузнецк (3843)20-46-81	Санкт-Петербург (812)309-46-40	Ульяновск (8422)24-23-59
Благовещенск (4162)22-76-07	Кемерово (3842)65-04-62	Ноябрьск (3496)41-32-12	Саратов (845)249-38-78	Улан-Удэ (3012)59-97-51
Брянск (4832)59-03-52	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Владивосток (423)249-28-31	Коломна (4966)23-41-49	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Владикавказ (8672)28-90-48	Кострома (4942)77-07-48	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Чебоксары (8352)28-53-07
Владимир (4922)49-43-18	Краснодар (861)203-40-90	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Челябинск (351)202-03-61
Волгоград (844)278-03-48	Красноярск (391)204-63-61	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Череповец (8202)49-02-64
Вологда (8172)26-41-59	Курск (4712)77-13-04	Петрозаводск (8142)55-98-37	Сургут (3462)77-98-35	Чита (3022)38-34-83
Воронеж (473)204-51-73	Курган (3522)50-90-47	Псков (8112)59-10-37	Сыктывкар (8212)25-95-17	Якутск (4112)23-90-97
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81		Тамбов (4752)50-40-97	Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.delta-mobrey.nt-rt.ru | | dye@nt-rt.ru

Технические характеристики на манометрические термометры, биметаллические GB, GE компании **Delta Mobrey**

Bimetallic Thermometers GB Range



Key Features

- Nominal diameter options of 100mm, 125mm and 150mm stainless steel case
- With rigid or "every angle" stem
- Watertight casing stainless steel execution
- Indication ranges included between -50 to +500 °C
- Wide choice of stem
- High quality and reliability covering all the application

Series Overview

- The GB bimetallic thermometers offers customers a cost effective and reliable solution to their arduous process control requirements
- Available with a wide variety of casing options and size, the GB bimetallic thermometers can be used for a variety of applications when pressure measurements are needed.

Other products

Other products in the series include:

- Gas Expansion Type Temperature Gauges



Product applications

The GB range is suitable for a wide range of applications in many industry sectors where a safety barrier & blow out back are required to give added safety:

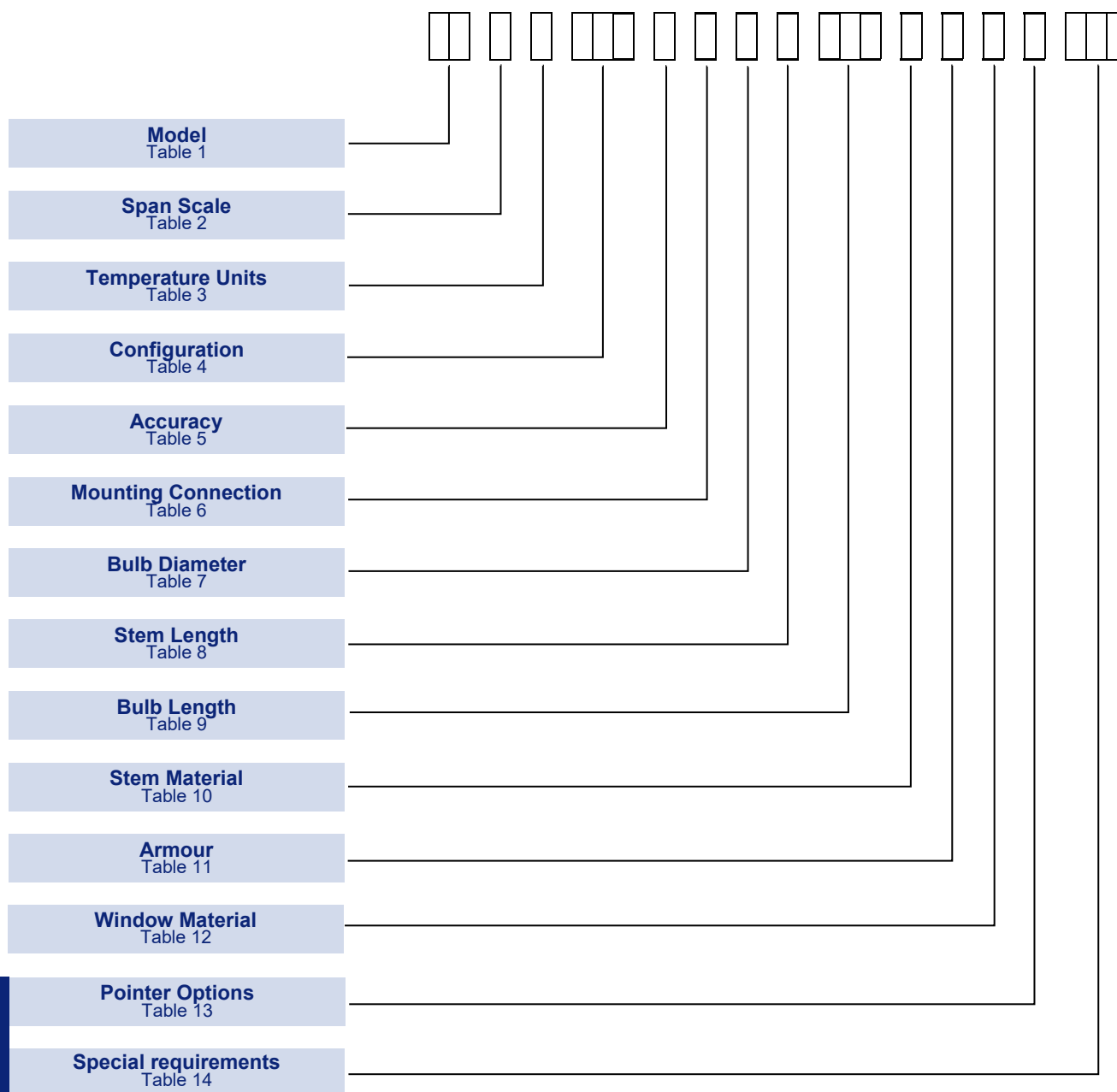
- Oil & Gas
- Chemical
- Petrochemical
- Refining
- Power
- Food Industry
- OEM

The choice of models available ensures suitability for use in:

- Corrosive atmospheres
- Resistant to chemical attack

How to order

Gauges can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.



NOTE: Options shaded in the following tables are the most common options and are available on the quickest lead-times and at the lowest cost.

NOTE: Only the most common options are shown in this data sheet. Should you require a feature that is not shown, please contact your local sales office for further details.

Technical Specification

Nominal sizes:	100 and 150 mm option B
Casing:	Case and ring in AISI 304 stainless steel or AISI 316 with bayonet bezel
Protection degree:	IP 55 for dry execution, IP65 for liquid filled
Windows material:	Glass for dry execution, laminated safety glass for liquid filled execution
Thermometric element:	Bimetal spiral
Working temperature:	From 1/10 to 9/10 (referred to full scale value)
Over-temperature:	115% of full scale value (occasionally allowed)
Movements:	Stainless steel
Pointer:	Aluminium with micrometer adjustment
Dials:	White aluminium with black graduation
Accuracy:	Class 1.0 per EN 13190
Sensitive stem:	Instruments are manufactured with fixed or sliding connection also suitable for an eventual thermowell connection
Thermowell:	Built-up from pipe or machined from a bar with flanged or threaded connection (see dedicated Technical Data Sheet)

Model

TABLE 1

☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

ENCLOSURE TYPES

Code

Bimetallic Thermometer

100 mm and 150 mm

GB

Range

TABLE 2

☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

SPAN OF OUTER SCALE

Code

0 to 60

A

0 to 100

B

0 to 120

C

0 to 160

D

0 to 200

E

0 to 250

F

0 to 300

G

0 to 400

H

0 to 500

J

0 to 600

K

-50 to +50

L

-40 to +60

M

-20 to +40

N

-20 to +100

P

-30 to +70

Q

-80 to +120

R

-50 to +110

S

-40 to +120

T

-30 to +170

U

-50 to +220

V

-30 to +220

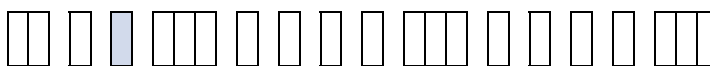
W

-20 to +140

Y

Temperature Units

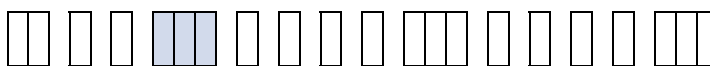
TABLE 3



	Code
Degrees Celsius	C
Degrees Celsius and inner scale to suit in Degrees Fahrenheit	G

Configuration

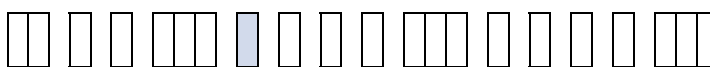
TABLE 4



	Code
Gauge diameter, mounting, case features & safety fill. Various options available. Contact Delta Mobrey Sales	XXX

Accuracy Class

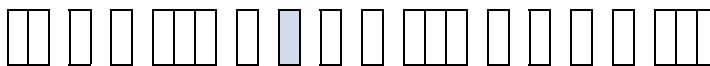
TABLE 5



	Code
Class 1.0 (± 1 per cent of full scale deflection)	A
Class 1.6 (± 1.6 per cent of full scale deflection)	B

Mounting connection

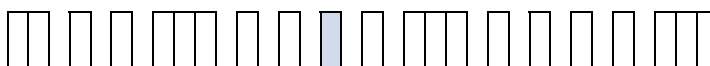
TABLE 6



	Code
R1/2 (1/2inch BSPT male), sliding and swivel	D
1/2-14 NPT External, fixed	J
G1/2B (1/2inch BSPP male), fixed	K
G1/2B (1/2inch BSPP male), sliding and swivel.	L
3/4-14 NPT External, sliding and swivel.	M
G3/4B (3/4inch BSPP male), sliding and swivel	O
1/2-14 NPT External, sliding and swivel	R
R1/2 (1/2inch BSPT male), fixed	W
G3/8B (3/8inch BSPP male), sliding and swivel	Z

Bulb diameter

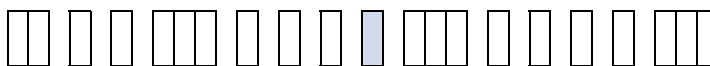
TABLE 7



	Code
Bulb 6mm diameter	A
Bulb 8mm diameter	B
Bulb 10mm diameter	C

Stem Length

TABLE 8



	Code
Various options available. Contact Delta Mobrey Sales	X

Bulb Length

TABLE 9



	Code
Various options available. Contact Delta Mobrey Sales	XXX

Stem Materials

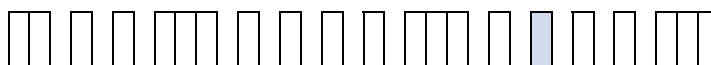
TABLE 10



	Code
Direct mount stem 316 stainless steel	R

Armour

TABLE 11



	Code
No armoured capillary	0

Window Material

TABLE 12



	Code
Laminated Safety Glass window for nominal gauge diameter 100mm and crimped retaining bezel.	D
Laminated Safety Glass window for nominal gauge diameter 100mm and bayonet retaining bezel.	F
Standard glass window	G
Laminated Safety Glass window for nominal gauge diameter 150mm and crimped retaining bezel.	M
Laminated Safety Glass window for nominal gauge diameter 150mm and bayonet retaining bezel.	P

Pointer Option

TABLE 13



	Code
Standard assembly only	0

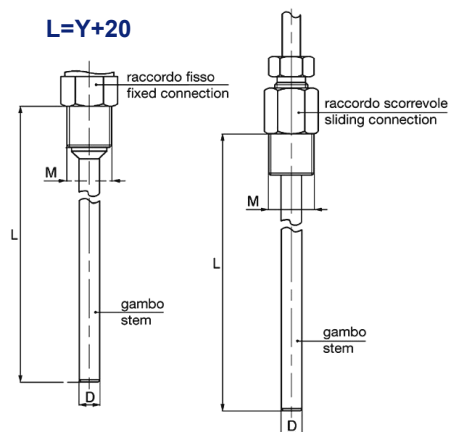
Special Requirements

TABLE 14



	Code
Special requirements	XXX

Sensitive stems and connections



Fixed and sliding

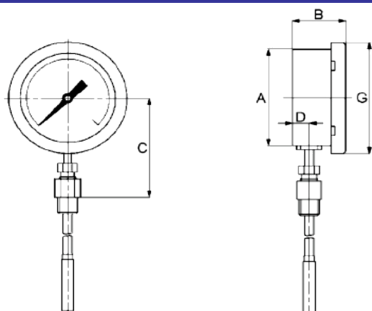
SIZE AVAILBALE
½" NPT
G½B (½"BSPP)
R½ (½"BSPT)
R½ (½"BSPT)
G½B (½"BSPP)
¾"NPT
½"NPT
G3/8B (3/8"BSPP)

Please refer to the Thermowells Data Sheet available on the website, for a correct coupling with the instrument

Note : Different length could be realized. Please contact our Sales department.

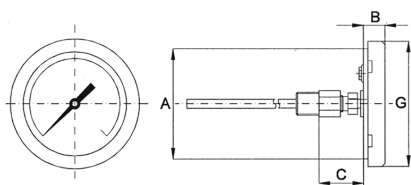
Range °C	Bulb Dimensions & Length L (Y+20mm)			
	min	standard	min	standard
	Diameter 6mm		Diameter 8mm	
-50 to +50	90	100 - 150 200 - 250 300 - 400	90	100 - 150 200 - 250 300 - 400
-40 to +60	90	100 - 150 200 - 250 300 - 400	90	100 - 150 200 - 250 300 - 400
-20 to +40	110	150 200 - 250 300 - 400	110	150 200 - 250 300 - 400
-20 to +100	70	100 - 150 200 - 250 300 - 400	70	100 - 150 200 - 250 300 - 400
0 to 60	110	150 200 - 250 300 - 400	110	150 200 - 250 300 - 400
0 to 100	90	100 - 150 200 - 250 300 - 400	90	100 - 150 200 - 250 300 - 400
0 to 120	70	100 - 150 200 - 250 300 - 400	70	100 - 150 200 - 250 300 - 400
0 to 160	60	100 - 150 200 - 250 300 - 400	60	100 - 150 200 - 250 300 - 400
0 to 200	80	100 - 150 200 - 250 300 - 400	80	100 - 150 200 - 250 300 - 400
0 to 250	110	150 200 - 250 300 - 400	110	150 200 - 250 300 - 400
0 to 300	80	150 200 - 250 300 - 400	80	150 200 - 250 300 - 400
0 to 400	80	100 - 150 200 - 250 300 - 400	80	100 - 150 200 - 250 300 - 400
0 to 500	80	200 - 250 300 - 400	80	100 - 150 200 - 250 300 - 400
0 to 600	60	150 200 - 250 300 - 400	60	150 200 - 250 300 - 400

Sensitive stems and connections



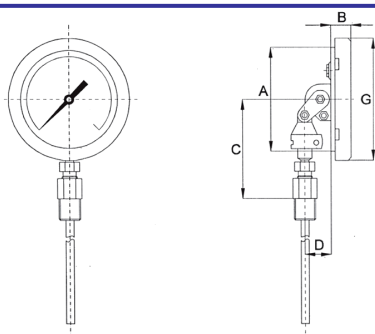
Thermometer for direct vertical mounting

DN	A	B	C	D	G	Weight
100	103	23	108	35	118	0.48
125	119	22	108	35	130	0.60
150	150	23	108	35	166	0.71



Thermometer for direct horizontal mounting

DN	A	B	C	G	Weight
100	103	22	58	111	0.38
125	119	22	58	130	0.44
150	150	22	58	161	0.50



Every angle thermometer for direct mounting

DN	A	B	C	D	G	Weight
100	100	22	80	40	111	0.48
125	119	22	80	40	130	0.54
150	150	22	80	40	161	0.60

Approvals

EUROPEAN DIRECTIVE



Pressure Equipment Directive (PED) 2014/68/EU

Compliant to PED, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

ATEX Directive 2014/34/EU



CONSTRUCTION SAFETY— Technical file storage reference SGS21ATEX0095DR

Notified body for Technical storage file : SGS Fimko Oy, Helsinki, Finland, Notified Body No 0598

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X

UK REGULATION



Pressure Equipment (Safety) Regulation 2016

S.I. 2016 no. 1105, as amended, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤200bar

Equipment and Protective Systems Intended for use in Potentially

Explosive Atmospheres Regulation 2016



(S.I. 2016 No. 1107 as amended)

CONSTRUCTION SAFETY— Technical file storage reference BAS21UKEx0356TDR

Approved body for Technical storage file : SGS Baseefa Ltd, Buxton, United Kingdom, Approval Body No 1180

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X



FM00720

Page 9 of 9

Bimetallic Thermometer
Model: GB

Bimetallic Thermometers GE Range



Key Features

- Nominal Diameter options of 100mm and 150mm stainless steel case
- Various versions available for direct or remote mount
- Rigid, “every angle” stem, or with capillary
- Watertight casing stainless steel execution
- Indication ranges included between –80 to +600 °C
- Reliable measurement for any industrial application
- Cost effective solution
- Wide range of options available



Series Overview

The GE gas expansion thermometers offers customers a reliable and accurate solution to their arduous process control requirement.

Available with a wide variety of casing options and sizes, the GE gas expansion thermometers can be used for a variety of applications when pressure measurements are needed.

The Gas expansion type can be equipped with a wide range of electrical contacts, adjustable from the front.

Other products

Other products in the series include:

- Bimetal Temperature Gauges models GB



Product applications

The GE range is suitable for a wide range of applications in many industry sectors where a safety barrier & blow out back are required to give added safety:

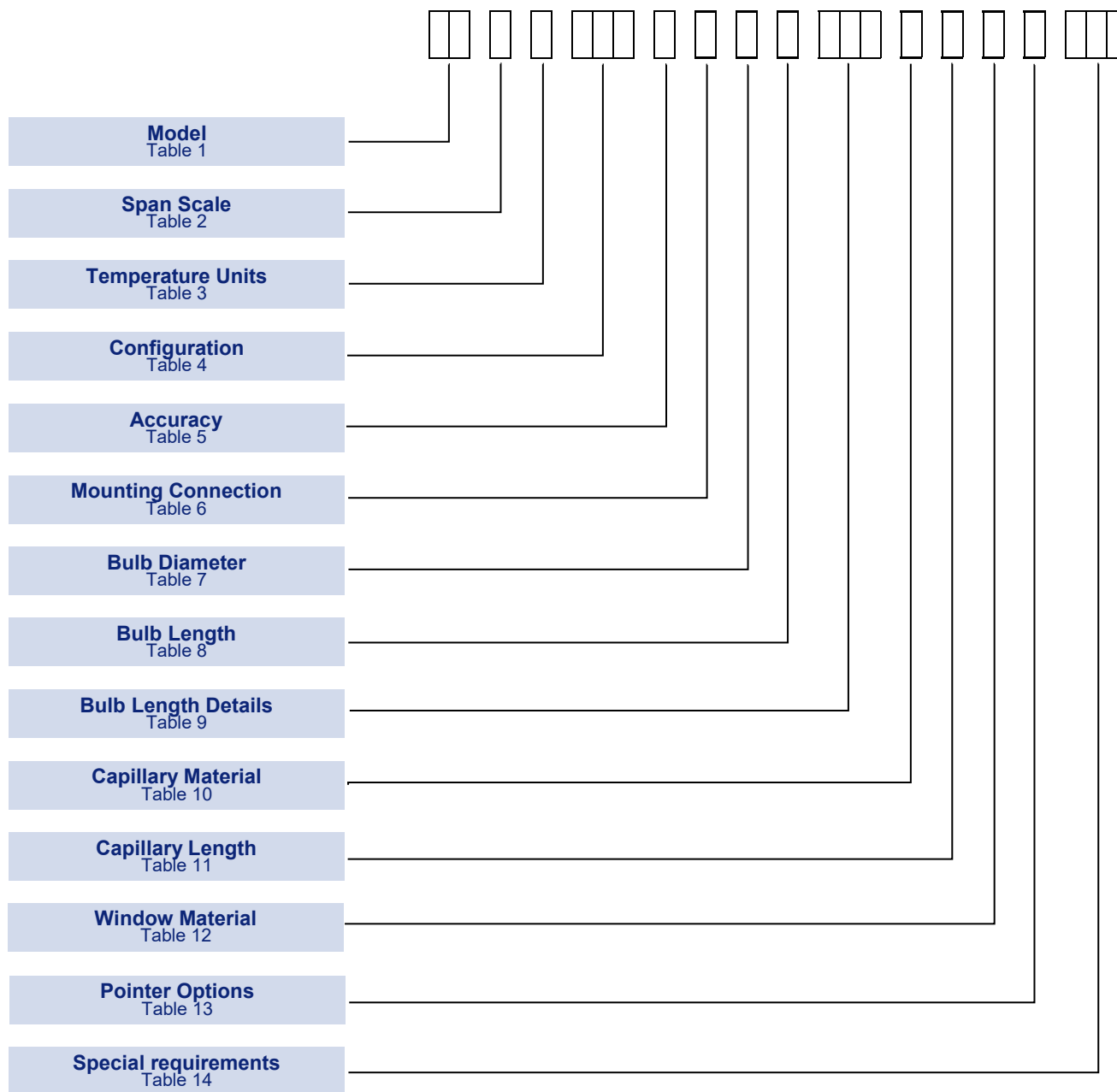
- Oil & Gas
- Chemical
- Petrochemical
- Refining
- Power
- Food Industry
- OEM

The choice of models available ensures suitability for use in:

- Corrosive atmospheres
- Resistant to chemical attack

How to order

Gauges can be configured by selecting codes representing the desired features from the tables that follow. The chart below, describes how the model code is built up. For assistance in configuring a switch that best suits your needs, please contact your local sales office.



NOTE: Options shaded in the following tables are the most common options and are available on the quickest lead-times and at the lowest cost.

NOTE: Only the most common options are shown in this data sheet. Should you require a feature that is not shown, please contact your local sales office for further details.

Technical Specification

Execution:	Direct or remote with capillary
Nominal sizes:	100 and 150 mm execution B 100 and 150 mm execution S
Casing:	Case and ring in AISI 304 stainless steel or AISI 316 with bayonet bezel
Protection degree:	IP55 for dry execution, IP65 for liquid filled
Windows material:	Glass for dry execution, laminated safety glass for liquid filled execution
Thermometric element:	Inert gas filled system acting on a CrMo Steel spiral tube
Working temperature:	From 1/10 to 9/10 (referred to full scale value)
Over-temperature:	115% of full scale value (occasionally allowed)
Pointer:	Aluminium with micrometer adjustment
Dials:	White aluminium with black graduation
Movements:	Stainless steel
Accuracy:	Class 1.0 per EN 13190
Thermal drift :	With reference to the ambient temperature of 20°C and due to the length of the capillary, thermal drift affects the instrument accuracy by +/- 0.15% per meter with every 10°C of variation
Sensitive stem: for	Instruments are manufactured with a fixed or sliding connection also suitable an eventual thermowell connection
Thermowell:	Built-up from pipe or machined from a bar with flanged or threaded connection

Model

[illegible]

ENCLOSURE TYPES	Code
Gas expansion Thermometer	
100 mm and 150 mm	GE

--	--

GE

Range

TABLE 2

SPAN OF OUTER SCALE & BULB LENGTH	Code
0 to 60	A
0 to 100	B
0 to 120	C
0 to 160	D
0 to 200	E
0 to 250	F
0 to 300	G
0 to 400	H
0 to 500	J
0 to 600	K
-40 to +60	M
-20 to +40	N
-20 to +100	P
0 to 80	R

A

B

C

D

E

F**G**

H

J

K

M

N

P

R

Temperature Units

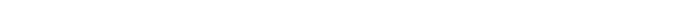
[illegible]

	Code
Degrees Celsius	C
Degrees Celsius and inner scale to suit in Degrees Fahrenheit	G

G

Configuration

TABLE 4

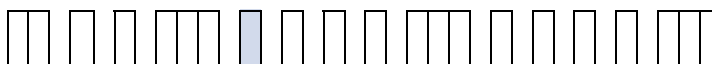


	Code
Gauge diameter, mounting, case features & safety fill. Various options available. Contact Delta Sales	xxx

options available. Contact Delta Sales

Accuracy Class

TABLE 5



	Code
Class 1.0 (± 1 per cent of full scale deflection)	A
Class 1.6 (± 1.6 per cent of full scale deflection)	B
Class 0.6 (± 0.6 per cent of full scale deflection) diameter150mm	C
Class 0.6 (± 0.6 per cent of full scale deflection) diameter100mm	E

Mounting Connection

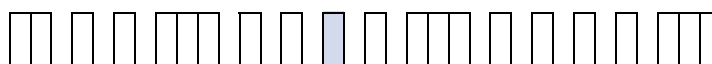
TABLE 6



	Code
No Connector	0
R1/2 (1/2inch BSPT male), sliding and swivel	D
G1/2B (1/2inch BSPP male), sliding and swivel.	L
3/4-14 NPT External, sliding and swivel.	M
1/2-14 NPT External, sliding and swivel	R
R3/4 (3/4inch BSPT male).	Y

Bulb Diameter

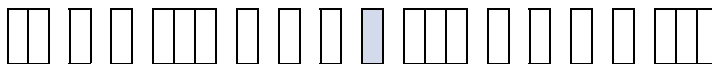
TABLE 7



	Code
Bulb 8mm diameter	B
Bulb 12mm diameter	C

Bulb Length

TABLE 8



	Code
Various options available. Contact Delta Mobrey Sales	X

Bulb Length Details

TABLE 9

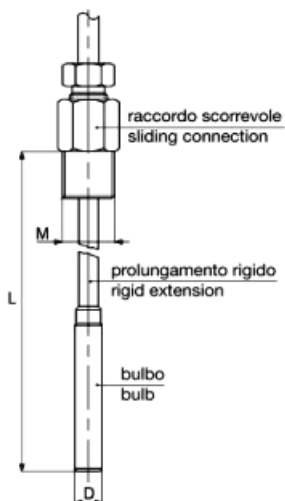


	Code
Various options available. Contact Delta Mobrey Sales	XXX

Sensitive stems and connections

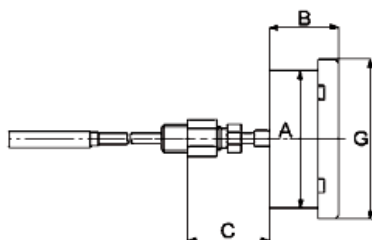
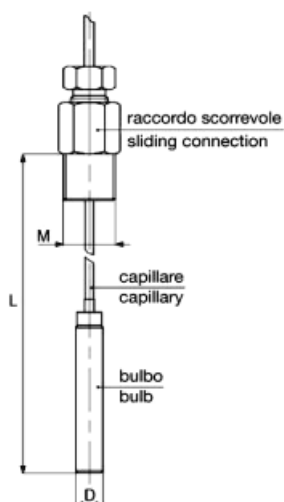
$$L=Y+20$$

Fixed and sliding



$$L=Y+20$$

Fixed and sliding



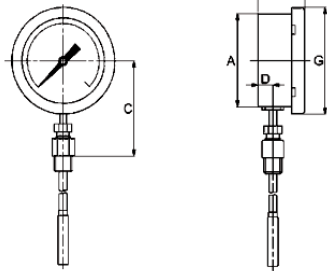
Thermometer for direct horizontal mounting

DN	A	B	C	G	Φ holes	Weight
100	103	50	60	111		0.56
150	150	50	60	161		0.80

Range °C	Bulb Dimensions			
	min	standard	min	standard
	Diameter 8mm		Diameter 12mm	
-40 to +60	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
-20 to +40	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
-20 to +100	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 60	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 100	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 120	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 160	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 200	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 250	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 300	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 400	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 500	170	200 - 250 300 - 400	85	100 - 150 200 - 250 300 - 400
0 to 600	170	200 - 250 300 - 400	120	150 200 - 250 300 - 400
0 to 80			85	To be agreed

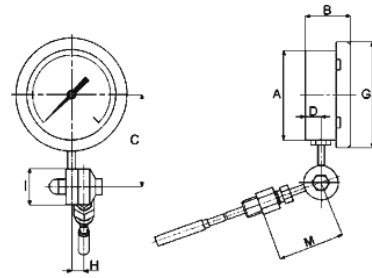
Please refer to the Thermowells Data Sheet available on the website, for the correct coupling with the instrument

Sensitive stems and connections



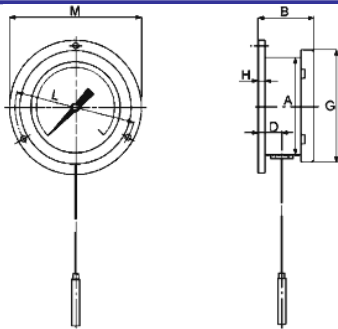
Thermometer for direct vertical mounting

DN	A	B	C	D	G	Φ holes	Weight
100	103	50	110	16.5	118		0.56
150	150	50	134	16.5	166		0.80



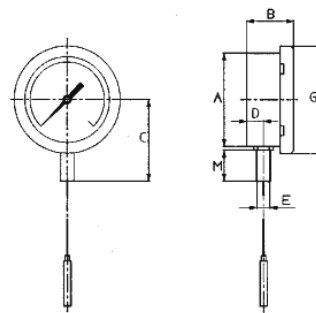
Thermometer every angle mounting

DN	A	B	C	D	G	H	I	M	Φ holes	Weight
100	103	50	110	165	111	13	40	65		0.70
150	150	50	134	165	161	13	40	65		0.94



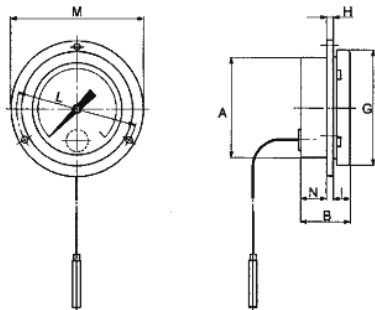
Thermometer surface mounted, 3 fixing holes

DN	A	B	D	G	H	L	M	Φ holes	Weight
100	103	57	23.5	118	7	126	140	5	0.82
150	150	57	23.5	166	7	178	192	5	1.18



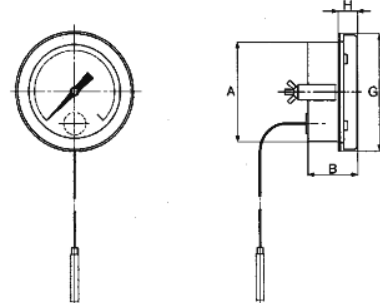
Thermometer remote mounted for wall support

DN	A	B	C	D	E	G	M	Φ holes	Weight
100	103	50	100	165	145	118	35		0.52
150	150	50	124	165	145	166	35		0.75



Thermometer remote flush mounted 3 fixing holes

DN	A	B	G	H	I	L	M	N	Φ holes	Weight
00	103	50	118	7	19	126	140	24	5	0.82
150	150	50	166	7	19	126	192	24	5	1.18



Thermometer remote flush mounted with clamp

DN	A	B	G	H	Φ holes	Weight
100	103	50	121	20		0.73
150	150	50	168	20		0.98

Approvals

EUROPEAN DIRECTIVE



Pressure Equipment Directive (PED) 2014/68/EU

Compliant to PED, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤ 200 bar

ATEX Directive 2014/34/EU



CONSTRUCTION SAFETY— Technical file storage reference SGS21ATEX0095DR

Notified body for Technical storage file : SGS Fimko Oy, Helsinki, Finland, Notified Body No 0598

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X

UK REGULATION



Pressure Equipment (Safety) Regulation 2016

S.I. 2016 no. 1105, as amended, Module A for static Pressure > 200 Bar, SEP for Static Pressure ≤ 200 bar

Equipment and Protective Systems Intended for use in Potentially

Explosive Atmospheres Regulation 2016



(S.I. 2016 No. 1107 as amended)

CONSTRUCTION SAFETY— Technical file storage reference BAS21UKEx0356TDR

Approved body for Technical storage file : SGS Baseefa Ltd, Buxton, United Kingdom, Approval Body No 1180

- Ex h IIC T6 Gb X
- Ex h IIIC T85°C Db X



FM00720

Page 9 of 9

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