

BIMETALLIC TYPE TEMPERATURE GAUGE

Special Features:

Stainless steel case & stem
Bottom / Back / Every Angle Entry
Standard Followed: EN 13190

Applications:

Food & beverage, pharmaceutical, cryogenics, chemical & petrochemical industries, conventional & nuclear power Plants, pumps, hydro-cleaning machines, presses, engine Compressors, turbines, diesel engines & refrigerating plants.



Specifications:

Standard Version: 63mm, 100mm, 150mm

Accuracy	: Class 1 as per EN 13190
Ambient temperature	: - 25°C to + 65°C
Process pressure	: 15 kg/cm ² (Without Thermowell)
Over Range Limit	: 115% of the Scale Value or 650°C, whichever is minimum
Stem Diameter	: 6mm / 8mm / 10mm / 12mm
Stem Length	: Refer Scale Table

Case	: AISI 304 SS
Ring	: AISI 304 SS, Bayonet Lock
Stem	: AISI 316 SS
Connexion	: AISI 316 SS
Sensing Element	: Bi-metal strip coiled
Joints	: Tig Argon Arc Welding

Protection	: IP 65
Dial	: Aluminium, black graduation on white background
Pointer	: Aluminium, black coloured fixed pointer
Window	: Sheet Glass
Gasket	: Neoprene

RANGE TABLE:

Note : Omicron offers National / International Scales like °C, °F, °K. Dual scales in °C and °F scales can be provided on request. Following are the example ranges in °C

POSITIVE RANGE SINGLE SCALE IN °C

RANGE	RANGE	RANGE	RANGE	RANGE
0/50	0/100	0/200	0/300	0/500
0/60	0/120	0/250	0/400	0/600
0/80	0/150			

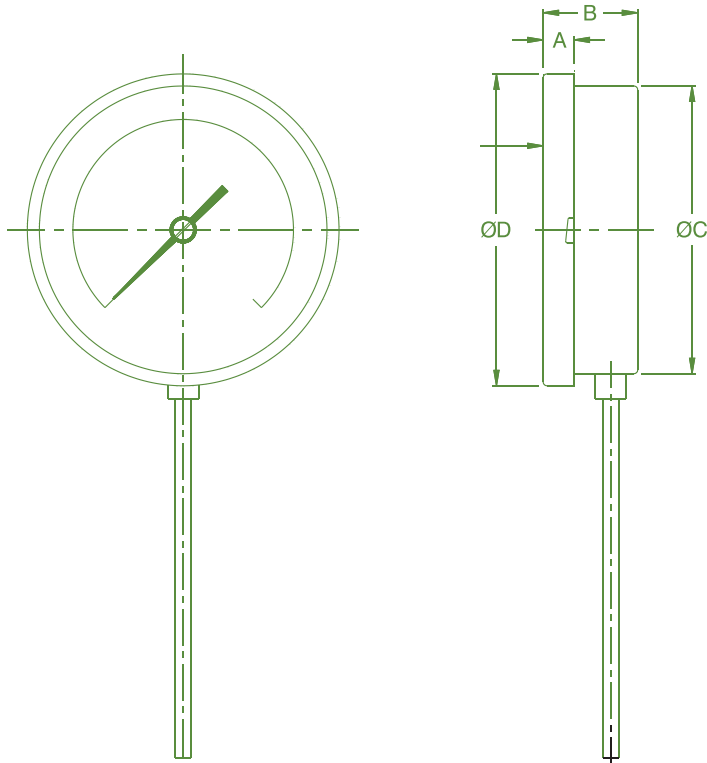
COMPOUND RANGE SINGLE SCALE IN °C

RANGE	RANGE	RANGE	RANGE	RANGE
-30/50	-20/100	-30/120	-30/220	-50/100
-20/60	-20/180	-30/170	-50/50	-50/150
-20/80	-30/70			

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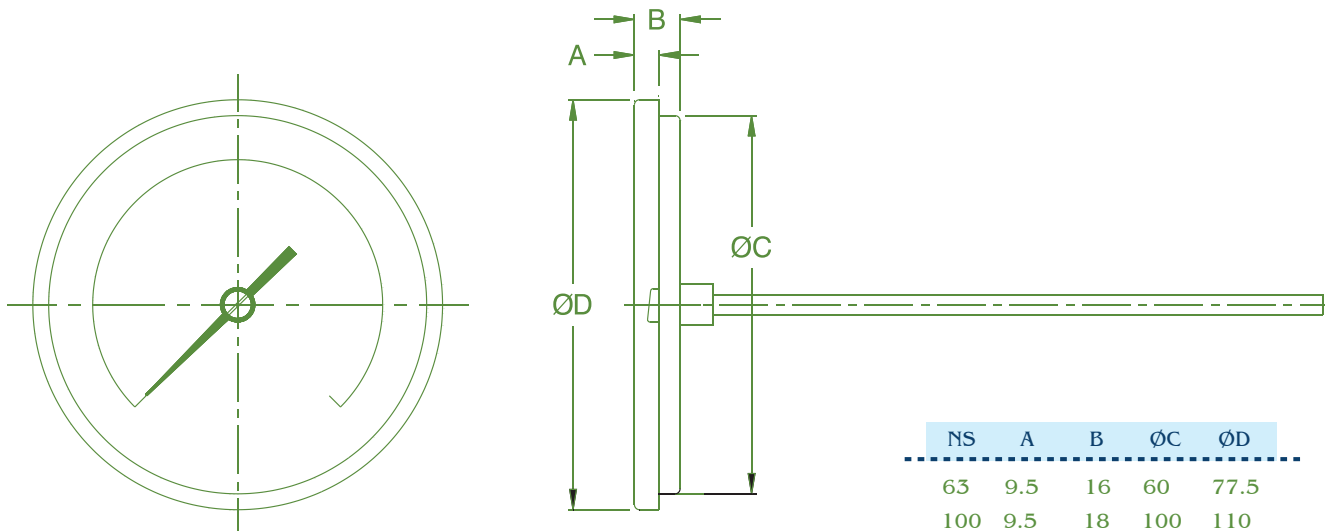
Dimensions - Standard Version

⚙ Type 1



NS	A	B	ØC	ØD
63	12.5	46	66	77.5
100	9.5	46	100	110
150	15	49	149	161

⚙ Type 4

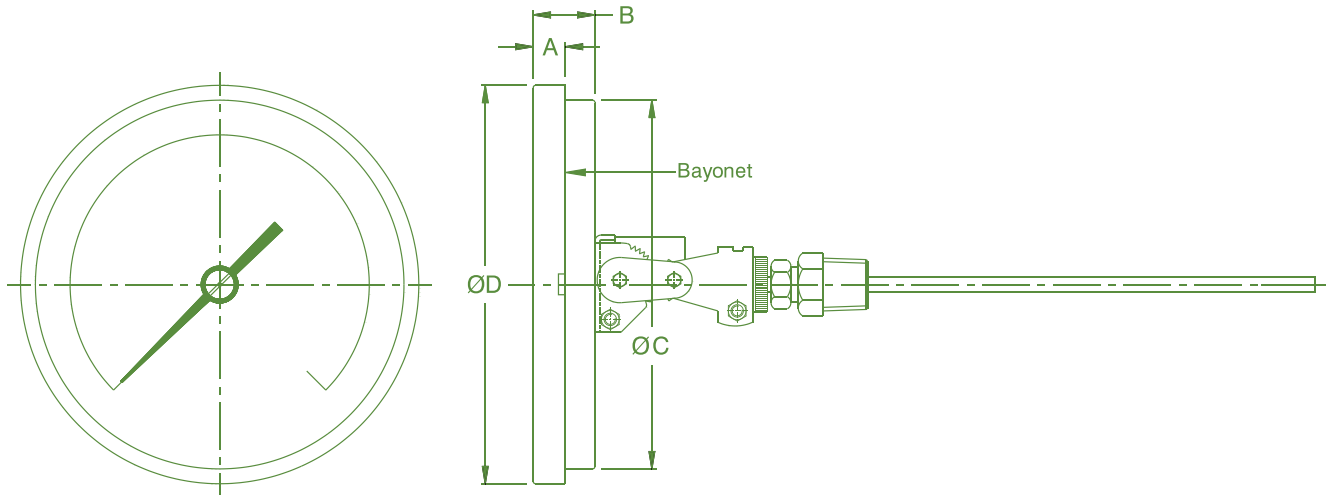


NS	A	B	ØC	ØD
63	9.5	16	60	77.5
100	9.5	18	100	110
150	15	25.5	149	161

Notes : • Drawings are not to scale. • All Dimensions are in mm.

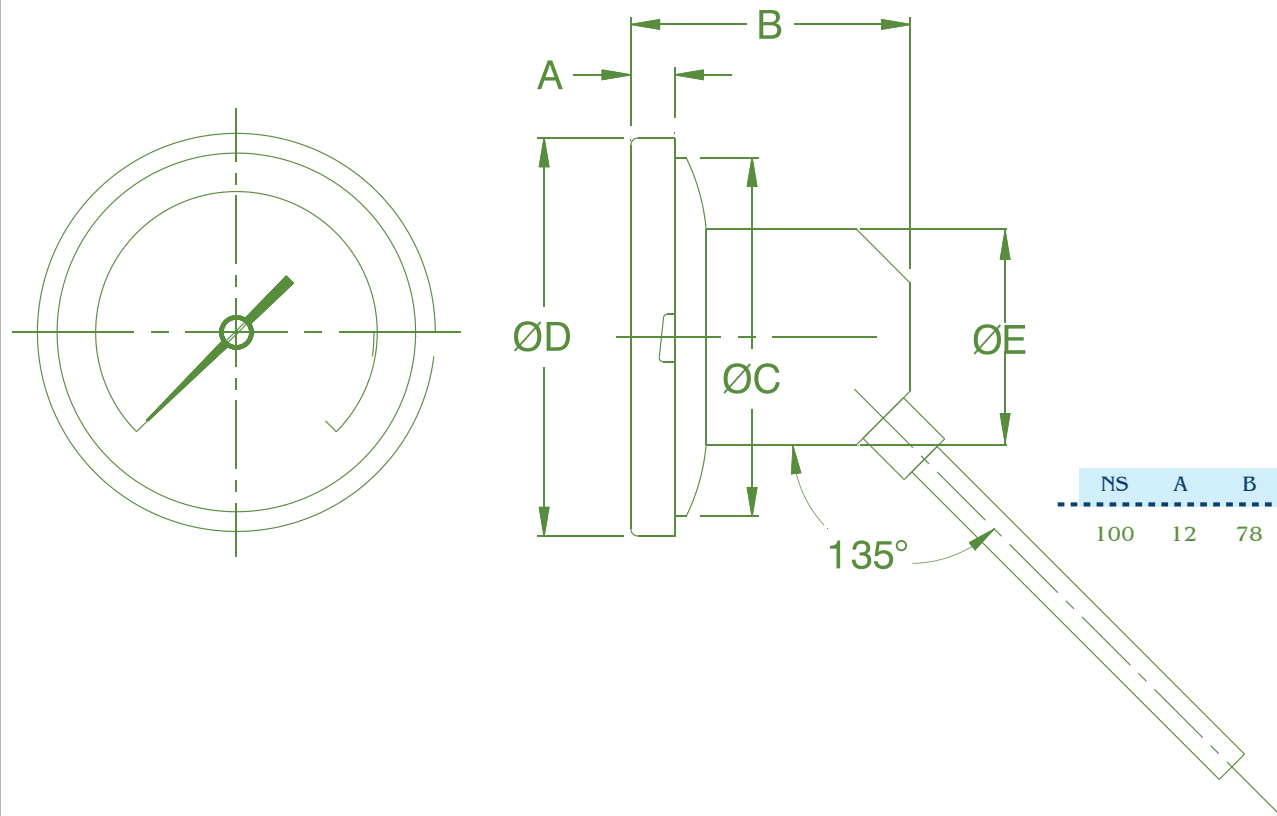
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⚙️ Type 7



NS	A	B	ØC	ØD
100	9.5	18	100	110
150	15	25.5	149	161

⚙️ Type 9



NS	A	B	ØC	ØD	ØE
100	12	78	100	111	60

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Scale Table: 6mm

RANGE °C	Min. Length	Max. Length
-50/50	65	500
-50/100	50	500
-50/150	40	500
-30/220	30	500
-30/170	40	500
-30/120	50	500
-30/70	65	500
-30/50	85	500
-20/180	40	500
-20/100	60	500
-20/80	65	500
-20/60	85	500
0/50	120	500
0/60	100	500
0/80	85	500
0/100	65	500
0/120	60	500
0/150	50	500
0/200	40	500
0/250	30	500
0/300	50	500
0/400	40	500
0/500	35	500
0/600	30	500

Scale Table: 8mm

RANGE °C	Min. Length	Max. Length
-50/50	60	900
-50/100	40	900
-50/150	35	900
-30/220	25	900
-30/170	35	900
-30/120	40	900
-30/70	60	900
-30/50	60	900
-20/180	35	900
-20/100	50	900
-20/80	60	900
-20/60	60	900
0/50	100	900
0/60	85	900
0/80	60	900
0/100	60	900
0/120	50	900
0/150	40	900
0/200	35	900
0/250	25	900
0/300	40	900
0/400	35	900
0/500	30	900
0/600	25	900

Scale Table: 6mm

RANGE °C	Min. Length	Max. Length
-50/50	65	500
-50/100	50	500
-50/150	40	500
-30/220	30	500
-30/170	40	500
-30/120	50	500
-30/70	65	500
-30/50	85	500
-20/180	40	500
-20/100	60	500
-20/80	65	500
-20/60	85	500
0/50	120	500
0/60	100	500
0/80	85	500
0/100	65	500
0/120	60	500
0/150	50	500
0/200	40	500
0/250	30	500
0/300	50	500
0/400	40	500
0/500	35	500
0/600	30	500

Scale Table: 8mm

RANGE °C	Min. Length	Max. Length
-50/50	55	1000
-50/100	35	1000
-50/150	30	1000
-30/220	25	1000
-30/170	30	1000
-30/120	55	1000
-30/70	55	1000
-30/50	55	1000
-20/180	30	1000
-20/100	45	1000
-20/80	55	1000
-20/60	55	1000
0/50	85	1000
0/60	80	1000
0/80	55	1000
0/100	55	1000
0/120	45	1000
0/150	35	1000
0/200	30	1000
0/250	25	1000
0/300	40	1000
0/400	535	1000
0/500	30	1000
0/600	25	1000

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HOW TO ORDER

Basic Model:

TGSS

CODE	A	B	C	D	C
Nominal Size(mm)	50	63	100	150	

Type Of Mounting:

1

1. Direct Bottom Entry
 3. Every Angle Back Entry (Except Ns 63mm)
 4. Direct Centre Back Entry
 8. Back Entry with Mounting Bracket
- (Other types of mounting can be provided on request.)

Process Connection:

10N

03B	1/8" BSP (M)	06BT	1/4" BSPT (M)	15N	1/2" NPT (M) STANDARD	M16	M 16 X 1.5 (M)
03N	1/8" NPT (M)	10B	3/8" BSP (M) STANDARD	15B	1/2" BSP (M) STANDARD	M20	M 20 X 1.5 (M)
06N	1/4" BSP (M)	10BT	3/8" BSPT (M)	15BT	1/2" BSPT (M)		
06N	1/4" NPT (M)	10N	3/8" NPT (M)	M12	M 12 X 1 (M)		

Note : Connections like PT/PF/Flaired /UNF/G/R etc.can be provided on request.
Non standard connections can be provided through adaptors.

Connection Type:

AC

FC Fixed Connection AC Adjustable Connection

Stem Diameter:

6mm

6mm 6mm Diameter 8mm 8mm Diameter 10mm 10mm Diameter 12mm 12mm Diameter

Total Stem Length (Below Case):

L300

L Indicate Immersion Length in mm

Range:

0 - 100°C

Refer Range Table

Options:

GT

SC	AISI 316 SS Case & Ring	DD	Custom Designed Dial
GP	Plexi Glass	DT	Dial Tag Marking
GS	Shatterproof / Safety Glass	ST	SS Tag Plate
GT	Toughened Glass	FP	Five Point Factory Calibration Certificate

Ordering Example : TGSS-C1-10N-AC-6mm-L300-0/100C-GT

Note : Due to continuous improvement, the specification may vary from time to time.
For non standard products/optional items, please contact factory for delivery and minimum quantity of order.