

V-shaped thermometer: Glass inserts

Liquid expansion thermometers for temperatures from -60°C to 600°C. These replacement glass inserts for the industrial thermometers C0101 are very tough, easy to install and reliable.



STANDARD PARAMETERS

Design: **DIN 16181/16182/16185/16186/16189/16190/16195**

Structure: The glass insert is secured by an aluminum case where the temperature range is printed. The metallic stem is fixed into the system by male or female thread or through a bolt

Dimension according to the case size (H): **110, 150 or 200mm**

Mounting: See attached diagrams **A, B or C**

Stem length (L), including thread: **25-500mm**

Insert diameter (Ø) : **6.25mm**

Range: **-60...0...600°C**

Scale: **°C or double scale °C and °F**

MATERIALS

Insert: Prismatic glass with white strip for T<450°C and Round glass with yellow back for T>450°C

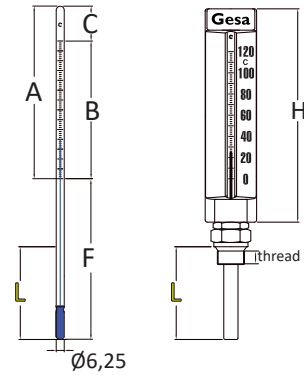
Thermometric liquid: Blue or red alcohol for T<200°C / Mercury for T>200°C

Application:

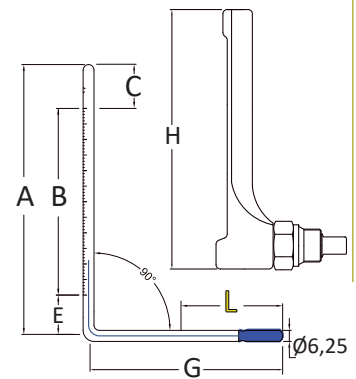
- Heating
- Boilers
- Naval Sector

Mounting	DIMENSIONS(mm)					WEIGHT (g)	DIN
	H	A	B	C	E		
Straight	110	76	60	16	-	11	DIN 16181
	150	113	90	23	-	13	DIN 16185
	200	153	130	23	-	18	DIN 16189
Angle 90°	110	86	60	15	11	11	DIN 16182
	150	124	90	18	16	13	DIN 16186
	200	174	130	24	20	18	DIN 16190
Angle 135°	110	86	60	15	11	11	-
	150	124	90	18	16	13	-
	200	174	130	24	20	18	DIN 16191

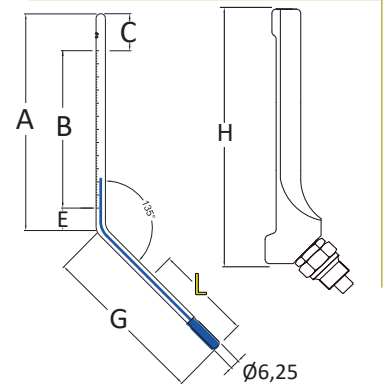
A Straight



B Angle 90°



C Angle 135°



Liquid operation limits

		Minimum operation temp. (°C)	Maximum operation temp. (°C)
Mercury	Hg	-38	+800
Ethanol	C ₂ H ₅ O	-110	+110
Toluene	C ₇ H ₆	-115	+135
Etil Benzoate	C ₁₂ H ₁₆ O ₂	-40	+220

Temperature range according to DIN 16195

Tmp. in °C	H	Subdivision °C/line	Maximum error	Liquid
-60+40	110	2	2	Alcohol
	150	1		
	200	1		
-30+50	110	1	2	Alcohol or mercury
	150		2	
	200		1	
0+60	110	1	2	Alcohol or mercury
	150		2	
	200		1	
0+100 0+120	110	2	2	Mercury
	150		5	
	200		10	
0+160 0+200	110	2	2	Mercury
	150		5	
	200		10	
0+300 0+400 0+500 0+600	150	5	5	Mercury
	200		10	
	200		10	

Stem length

L	H=110mm		H=150mm		H=200mm	
	F	G	F	G	F	G
40	81	66	87	66	97	66
63	104	89	110	89	120	89
100	141	126	147	126	157	126
160	201	186	207	186	217	186
200	241	226	247	226	257	226

How to order

1. Case dimension (H)

110
150
200

2. Mounting

A B C

3. Temperature range (°C)

-10+50 0+100 0+200 0+500
-30+50 0+120 0+300 0+600
0+60 0+160 0+400

4. Temperature scale

Single °C
Double °C / °F

5. Thermometric liquid

Blue alcohol
Red alcohol
Mercury

6. Stem length in mm (L), including thread

25 40 55 70 85 110 135 200 270 400
30 45 60 75 90 120 140 220 300 450
35 50 63 80 100 130 160 250 350 500

7. Calibration certificate traceable to ENAC

3 points 6 points
4 points 7 points
5 points Without certificate

C0201 -

1	2	3	4	5	6	7
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Order it online!

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