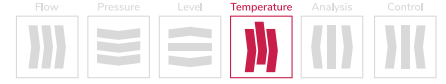


MTS600

Digital Temperature Gauges



OVERVIEW

Operation

There are industrial applications demanding a more precise reading in compare with mechanical temperature gauges and its Bass digital thermometers series MT600 comes into practice.

Application

- Chemical & petrochemical plants
- Mechanical Engineering
- Dryers, ovens, tanks
- Food & dairy industries, breweries
- Industrial applications demanding more precise reading

Features

- Compact design
- Simple installation
- Long term stability
- Wide measuring range
- High accuracy
- High shock, vibration resistance
- LCD display with 5 digits and their very sensitive sensors
- Battery life is at least 2 years which means hassle-free digital reading at extremely cheap cost
- Maximum memory (peak record)
- Backlight
- Unit conversion



OPERATING DATA

Ambient Temperature

-10...+60°C

Accuracy

±0.5°C for 0°C...100°C

±1.0°C for -20°C...200°C

±2.0°C for -50°C...450°C

Nominal Size

100 mm

Sensor

PT100, Class A

Battery

2 x 1/5 V AA Alkaline

Battery Life

2 years

Enclosure

IP65

Cycle Life

6 million cycles

Display

5 digit LCD, Size: 68x38 mm

Long-Term Stability

≤0.15 % of span

Protection

Protected against reverse battery polarity

Stem Diameter

6 mm standart 8 or 10 mm on request

Case

100 mm

Stem Length

100, 150, 200, 300 mm

Reference Condition

Temperature: 0...60°C

Atm. Pressure: 860...1060 mbar

Humidity: <90%(non-condensing)

MEASURING RANGES

Temperature

0...100°C

-20...200°C

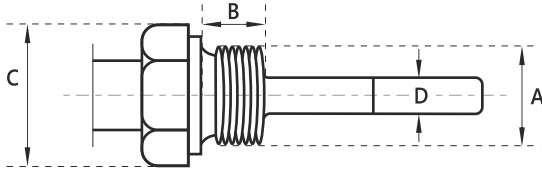
-50...450°C



TECHNICAL DRAWINGS AND DIMENSIONS

1. Fixed male thread connection

Minimum insertion length: 63mm for bottom connection
50mm for back connection

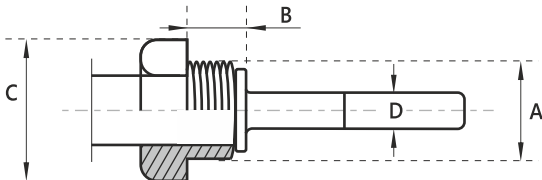


A: Male thread
B: Thread length
C: Spanner width
D: Stem diameter

Nominal Size in mm	Process connection		Dimensions (in mm)		Connection Code
	A	B	C	D	
100	G 1/4 B	12	19	6	1B4
	G 1/2 B	14	27	6	1B2
	M18 x 1.5	12	24	6	1-M18 x 1.5
	1/2 NPT	19	24	6	1N2

2. Male Nut (turning connection)

Minimum insertion length: 80mm



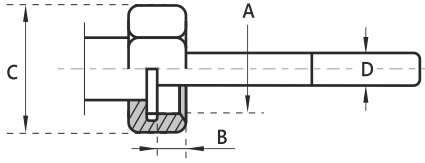
A: Male thread
B: Thread length incl. collar
C: Spanner width
D: Stem diameter

Nominal Size in mm	Process connection		Dimensions (in mm)		Connection Code
	A	B	C	D	
100	G 1/2 B	20	27	6	2B2
	M18 x 1.5	17	22	6	2-M18 x 1.5



3. Union Nut (female connection)

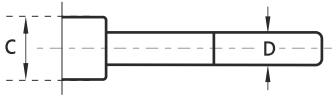
Minimum insertion length: 89mm



A: Female thread
B: Thread length
C: Spanner width
D: Stem diameter

Nominal Size in mm	Process connection		Dimensions (in mm)		Connection Code
	A	B	C	D	
100	G 1/2	8.5	27	6	3B2
	G 3/4	9.5	32	6	3B3

4. Stem without thread

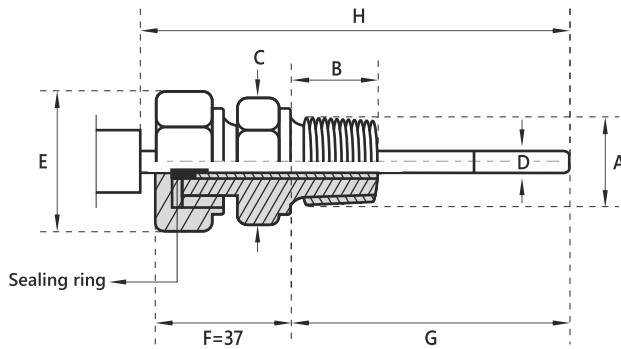


C: Plain diameter
D: Stem diameter

Nominal Size in mm	Dimensions (in mm)		Connection Code
	C	D	
100	18	6	000

5. Compression Fitting (Sliding Connection)

Insertion length G = variable
Length H = G + 37 mm

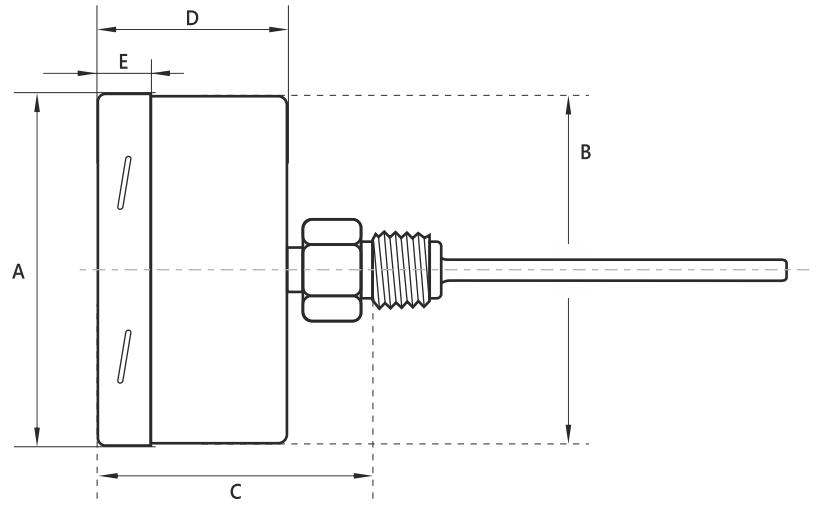


A: Male thread
B: Thread length
C: Spanner width
D: Stem diameter

Nominal Size in mm	Process connection		Dimensions (in mm)			Connection Code
	A	B	C	D	E	
100	G 1/4 B	8	22	6	27	5B4
	G 1/2 B	14	27	6	27	5B2
	M18 x 1.5	12	24	6	27	5-M18 x 1.5
	1/2 NPT	19	22	6	27	5N2
	G 3/4 B	16	32	6	27	5B3
	3/4 NPT	20	30	6	27	5N3

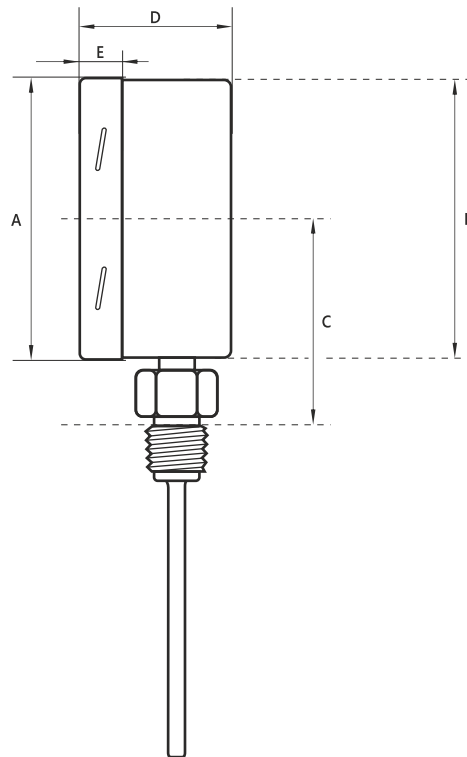


■ Back Mount



NS	A	B	C	D	E
100	101	98	71	48	16

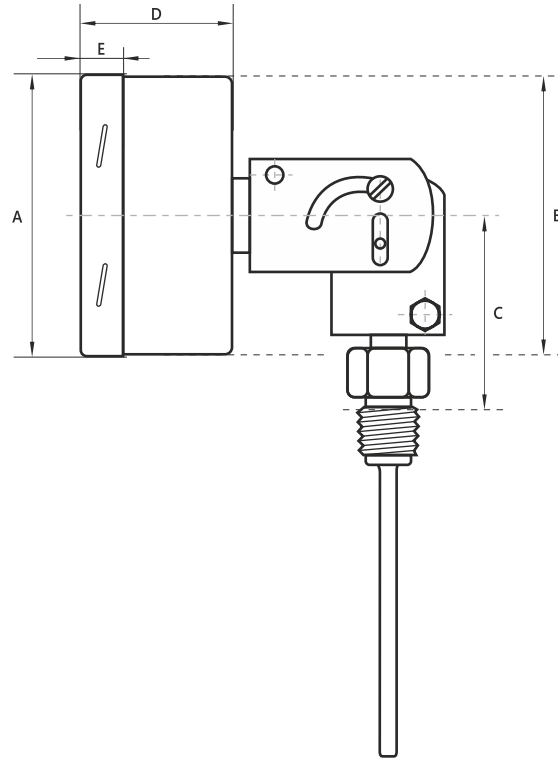
■ Lower Mount



NS	A	B	C	D	E
100	101	98	71	49	16

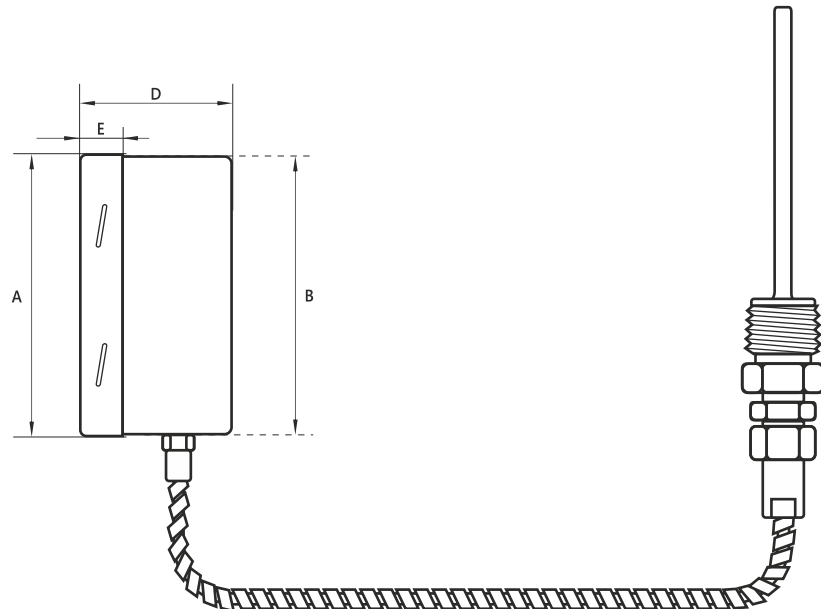


■ Every Angle



NS	A	B	C	D	E
100	101	98	62	48	16

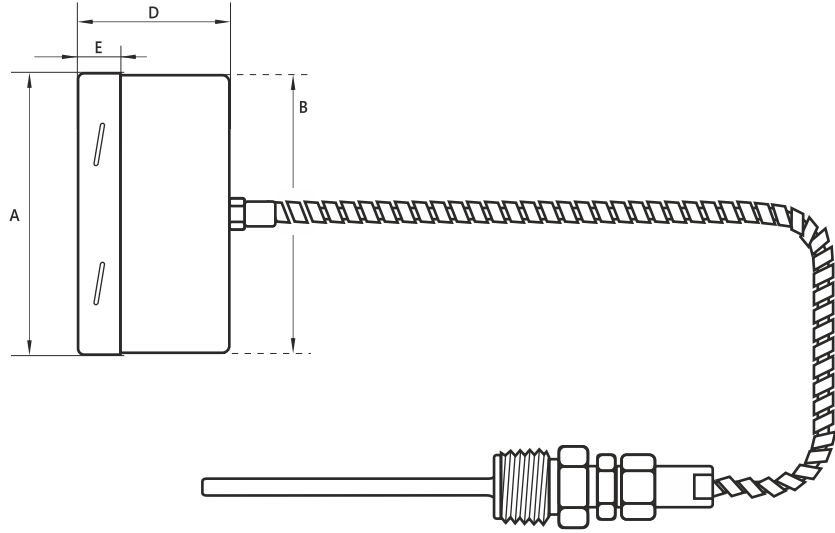
■ Capillary, Lower Mount



NS	A	B	D	E
100	101	98	51	16



■ Capillary, Back Mount



NS	A	B	D	E
100	101	98	51	16



ORDERING

Model	
MTS600	Digital Temperature Gauges

Mounting	
AL	Lower mount
AR	Back mount
EA	Every angle
CAL	Capillary, lower mount
CAR	Capillary, back mount

Stem Diameter	
6	6 mm
8	8 mm
10	10 mm

Stem Length	
100	100 mm
150	150 mm
200	200 mm
300	300 mm

Connection	
XX	Please see the technical drawings tables for connection code

Measuring Range	
ST	0°C...100°C
HT	-20°C...200°C
WT	-50°C...450°C
XX	Special ranges

