

# Gas Filled thermometer

## Model: TC1

### Applications

- Monitoring of plants and switching of circuits
- Control and regulation of processes
- For gaseous and liquid aggressive
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction

### Special features

- According to nace MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Liquid-filled version also available
- Up to 4 switch contacts per instrument
- Scale ranges up to -50...650°C

### Description

- **Accuracy class** 1.6, 1% (option)
- **Process connection** Stainless steel 316L back & bottom  
NS 100, 160: ½ NPT, BSP (option)
- **Socket & connection** 316L st. steel treated to comply with [NACE MR0175&mr0103 standards \(option\)](#)
- **Window** Laminated safety glass Anti-glare & Anti-static
- **Max. operating press.** 250PSI
- **Case & bayonet bezel** Stainless steel 304, Stainless steel 316
- **Movement** Stainless steel with stabilizer
- **Pointer** Aluminium, black, adjustable pointer
- **Dial** Aluminium, white, black lettering,
- **Capillary length** 1...30m
- **Protection** IP65, IP66
- **Range** -50...650°C
- **Contact Type** Silver-Nickel contacts  
See the electric alarm contact types section
- **Contact Rating** Magnetic: 1 A for up to 230 VAC  
0.5 A for up to 48 VDC  
Inductive: 0.4 A up to 220 VAC  
Inductive: 0.4 A up to 220 VAC (op.)



## Magnetic Contact

Code	Version	1 <sup>st</sup> Contact	Contact Type	1 <sup>st</sup> Contact
M0	magnetic	NO		
M2	magnetic	NC		
M4	magnetic	Special single change over contact (SPDT)		
M6	magnetic	NO		NO
M8	magnetic	NO		NC
M10	magnetic	NC		NO
M12	magnetic	NC		NC
M14	magnetic	Special single change over contact (SPDT)		

## Inductive Contact

Code	Version	1 <sup>st</sup> Contact	Contact Type	1 <sup>st</sup> Contact
I1	inductive	NO		
I3	inductive	NC		
I5	inductive	NO		NO
I7	inductive	NO		NC
I9	inductive	NC		NO
I11	inductive	NC		NC





**TC 1 Contact Thermometers**

ORDERING CODE	Example: TC 1	4	T	0	F	4	AT	120	WA	Note
<b>Dial Size</b>										
2 - 63 mm(2 1/2")										
4 - 100mm(4")		4								
5 - 125mm(5")										
6 - 160mm(6")										
<b>Connection Type</b>										
T - Bottom			T							
B - Back										
<b>Stem Diameter</b>										
0 - 6.0 mm (standard)				0						
2 - 6.4 mm (1/4")										
4 - 8.0 mm (5/16")										
6 - 9.6 mm (3/8")										
8 - 12.7 mm (1/2")										
C - Customer										
<b>process connection</b>										
F - Fixed					F					
M - Movable										
P - Plain										
C - Customer										
<b>Stem length</b>										
2 - 63 mm										
4 - 100 mm						4				
6 - 150 mm										
8 - 200 mm										
10 - 250 mm										
15 - 300 mm										
20 - 500 mm										
XXX - Please specify the length (mm)										
<b>Accuracy</b>										
AC - 1%										
AT - 1.6%							AT			
<b>Range (°C)</b>										
XXX - Please specify the range								120		
<b>Options</b>										
LF - Liquid fill										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
EP - Epoxy painted case & bezel										
SG - Safety glass										
BT - BSP thread										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
WR - Two year warranty										
NC - NACE MR 0175 & MR 0103 standard										
Other										





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