

## Main Specifications

## ▼Size

3" , 4" , 6"

## ▼Installation type

Back mount with flange

(FTFFC)

Back mount with U-clamp

(FTFUC)

Wall mount with flange

(FTWFC)

## ▼Window

Acrylic

## ▼Process connection

Material: SS304

1/2" PT

3/8" PT

With swivel nut

## ▼Stem

Material: SS304 / SS316

Length: 6" (standard)

Outer diameter: 12mm

Other outer diameter / length

are available upon request

## ▼Capillary

Material: SS304

Length: 3m

Outer diameter: 6.35mm

Other outer diameter / length

are available upon request

## ▼Temperature range

Min. -50°C

Max. +650°C

## ▼Applicable fluid

Liquid and gas that compatible  
with connection's material

## ▼Protection level

IP 54

## Other Specifications

## ▼Ring

Stainless steel

Outside bayonet

## ▼Case

SS 304

External adjustable screw

## ▼Wiring type

Visual wiring (FL) /

Visual magnet base with

junction box (JB)

## ▼Switch contact type

Sliding switch SPST

## ▼Contact function

Single contact N.O. (1a) /

Single contact N.C. (1b) /

Double contacts N.O.+N.C. (1a1b) /

Double contacts N.C.+N.O. (1b1a) /

Double contacts N.O.x2 (2a) /

Double contacts N.C.x2 (2b)

For more information please refer

to single / double contacts wiring

## ▼Contact material

80% silver, 20% nickel, 10µm

gold-plated (&gt;110V)

Gold (≤36V)

## ▼Number of contacts

SPSTx1 / SPSTx2 / SPSTx4

## ▼Pointer

Aluminum with black enamel

(With adjustable screw)

## ▼Dial face

Red and black scale

Pressure unit, scale, and color  
can be customized upon  
request

## ▼Measuring elements

Gas-actuated (standard)

Liquid-actuated (option)

## ▼Temperature accuracy

±1%

## ▼Operating temperature

Stabilization: 3/4\* full scale

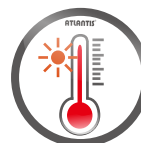
Short-time: 1\* full scale

# Remote Reading Thermometer with Electrical Contact

## Model: FTC series

### Introduction

The remote reading thermometer equipped with a buzzer, a flashing indicator or a relay to remote control and monitor connected facility.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales.  
(If there is any change on specification, please take the latest version as standard.)

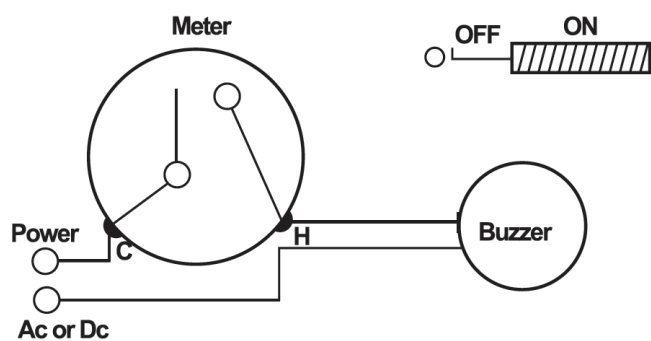
### Features

- OEM service
- Adopts sliding switch SPST, various contact functions
- Various installation type
- Stem / Capillary's outer diameter and length can be customized upon request
- Media-actuated thermometer can fast response to ambient temperature

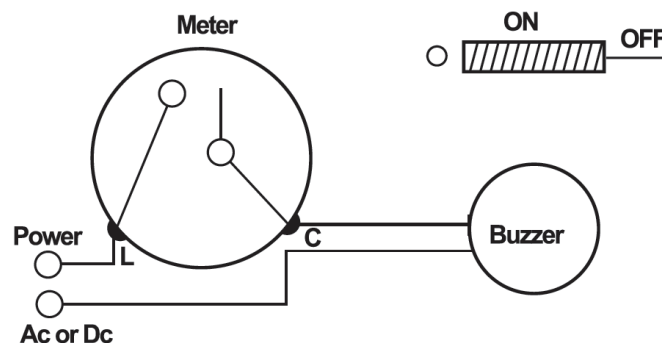
### Power parameter

| Voltage              | DC    | AC    | Inductive load |
|----------------------|-------|-------|----------------|
| 230V                 | 100mA | 120mA | 65mA           |
| 110V                 | 200mA | 240mA | 130mA          |
| 50V                  | 300mA | 450mA | 200mA          |
| 24V                  | 400mA | 600mA | 250mA          |
| Capacity 18W / ~30VA |       |       |                |

## Contact wiring type



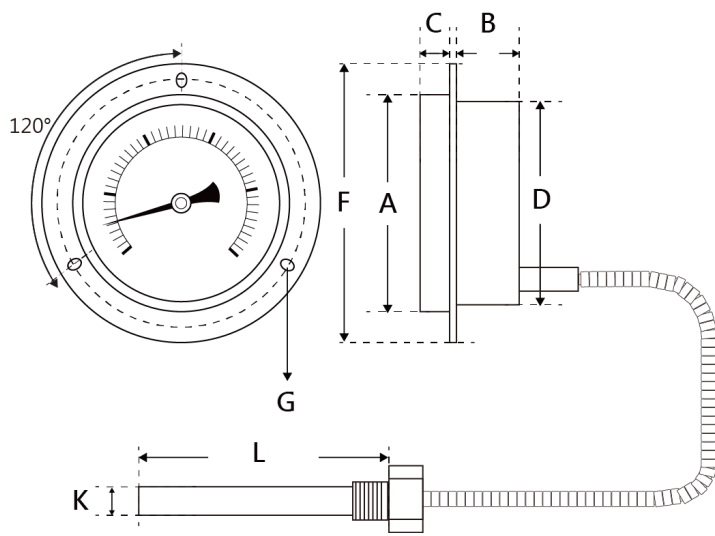
Single contact upper limit (1a)



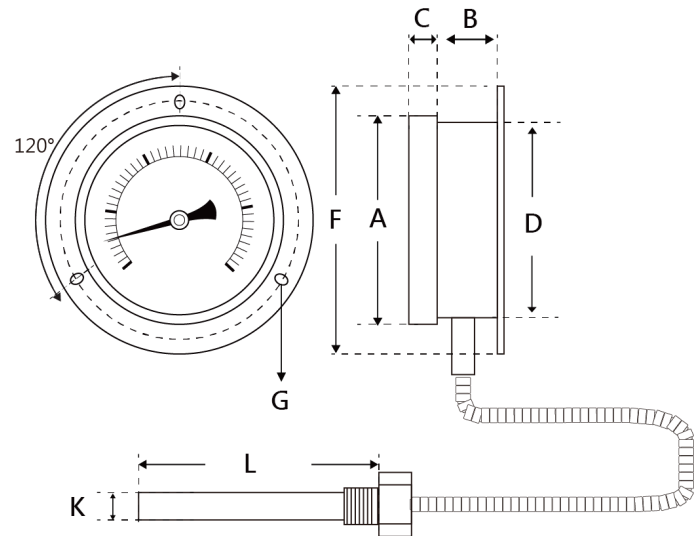
Single contact lower limit (1b)

| Double contact |   |             |
|----------------|---|-------------|
|                | <p>When the pressure indicator reaches left set point (green pointer), the first contact breaks (circuit open)</p> <p>When the pressure indicator reaches right set point (red pointer), the second contact makes (circuit close)</p> <p>(NC+NO)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPSD X 2</p>      | <b>1a1b</b> |
|                | <p>When the pressure indicator reaches left set point (red pointer), the first contact makes (circuit close)</p> <p>When the pressure indicator reaches right set point (green pointer), the second contact breaks (circuit open)</p> <p>(NC+NO)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPSD X 2</p>      | <b>1b1a</b> |
|                | <p>When the pressure indicator reaches left set point (yellow pointer), the first breaks (circuit close)</p> <p>When the pressure indicator reaches right set point (red pointer), the second contact breaks (circuit close)</p> <p>(NC-NO x 2)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPSD X 2</p>       | <b>2a</b>   |
|                | <p>When the pressure indicator reaches left set point (green pointer), the first contact makes (circuit open)</p> <p>When the pressure indicator reaches right set point (yellow pointer), the second contact makes (circuit open)</p> <p>(NC-NC x 2)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPSD X 2</p> | <b>2b</b>   |

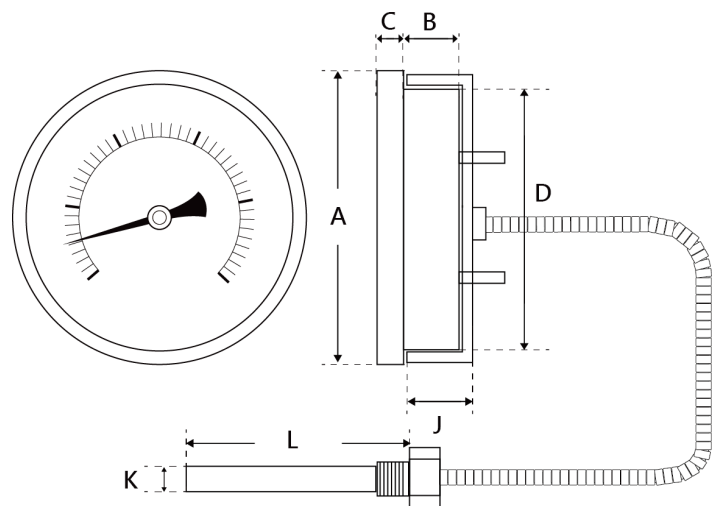
## Installation type



Back mount with flange (FTFFC)



Wall mount with flange (FTWFC)



Back mount with U-clamp (FTFUC)

## How to order

| Remote Reading Thermometer with Electrical Contact (FTC series) |                          |  |   |       |                                      |       |   |      |           |
|---|--------------------------|--|---|-------|--------------------------------------|-------|---|------|-----------|
| Std.  | Spec.                    | Code   | Item  | Code  | Item                                 | Code  | Item  | Code | Item      |
| FTFFC   | Installation type        | FTFFC  | Back mount with flange  | FTFUC | Back mount with U-clamp              | FTWFC | Wall mount with flange                          | —    | —         |
| 04  | Size                     | 03   | 3"  | 04    | 4"                                   | 06    | 6"  | —    | —         |
| FL  | Wiring type              | FL   | Visual wiring   | JB    | Visual magnet base with junction box | —     | —   | —    | —         |
| 1a1b  | Contact function         | 1a   | N.O.  | 1b    | N.C.                                 | 1a1b  | N.O.+N.C.                                       | 1b1a | N.C.+N.O. |
|   |                          | 2a   | N.O.x2  | 2b    | N.C.x2                               | —     | —   | —    | —         |
| 2   | Contact numbers          | 1  | SPSTx1  | 2     | SPSTx2                               | 4     | SPSTx4  | —    | —         |
| 3P  | Process connection       | 3P   | 3/8" PT with swivel nut   | 4P    | 1/2" PT with swivel nut              | O     | Others  | —    | —         |
| 304   | Stem material            | 304  | SS 304  | 316   | SS 316                               | O     | Others  | —    | —         |
| Custom  | Stem outer diameter      | Standard: 12mm<br>Other stem outer diameter available upon request         |   |       |                                      |       |   |      |           |
| Custom  | Stem length              | Standard: 63.5mm<br>Other stem length available upon request               |   |       |                                      |       |   |      |           |
| 304   | Capillary material       | 304  | SS 304  | O     | Others                               | —     | —   | —    | —         |
| Custom  | Capillary outer diameter | Standard: 6.35mm<br>Other capillary outer diameter available upon request. |   |       |                                      |       |   |      |           |
| Custom  | Capillary length         | Standard: 3M<br>Other capillary length available upon request (Max. 20M)   |   |       |                                      |       |   |      |           |
| Custom  | Temp. range              | -50 to 650°C   |   |       |                                      |       |   |      |           |
| A   | Measuring elements       | A  | Gas-actuated  | L     | Liquid-actuated                      | —     | —   | —    | —         |
| /D  | Other requests           | /A   | Third party notarized documents   |       |                                      | /B    | Inspection report                               |      |           |
|   |                          | /C   | Tag   |       |                                      | /D    | Customized dial face (scale, color, unit, etc.) |      |           |
|   |                          | /E   | Thermowell (thermowell specifications are customized according to the selected stem specifications) |       |                                      | /F    | Remove external adjustable screw                |      |           |
|   |                          | /G   | Remove anti-sway pointer (better sensibility)   |       |                                      | /H    | IP67 (sealed with silicone rubber O-ring)       |      |           |
|   |                          | /I   | Epoxy coating capillary   |       |                                      | —     | —   |      |           |

Order example: FTFFC - 04 - FL - 1a1b - 2 - 3P - 304 - 12mm - 63.5mm - 304 - 6.35mm - 3M - (0 to 150°C) - A + /D