



**SJ MTR.S /
MTG.S-E**



**CAPILLAR
THERMOMETERS**

Product Description

- Capillary length can be adjusted on demand for remote observation
- Made of stainless steel, measures temperatures up to 600°C
- 3", 4", 6" can mounted with electrical contacts to measure the temperature devices



Fig. above: MTR.S
Fig. below: MTR.S-E (with electrical contacts)

Product Specification

Connection location

Lower mount with surface mounting flange, 6" lower mount with surface mounting bracket (3 holes), back mount, back mount with U-clamp

Nominal size

MTR.S: 2.5", 3", 4", 5", 6"

MTR.S-E: 3", 4", 6"

Scale ranges

-50°C ... 600°C

Accuracy

CL 1.0

Process connection

304 SS

1/4", 3/8", 1/2", 3/4"; PT, G, NPT, M

Connection designs

Male thread, plain stem, compression fitting (sliding on stem), union nut and loose threaded connection, male nut, union nut, sanitary tri-clamp, flange on stem

Stem

304 SS (standard), 316 SS

Length: above 50 mm (without thread) can be customized

Diameter: 6.35, 8, 9.5, 10, 12 mm

Product Specification

Capillary length

3 M ... 20 M

Case/Ring

304 SS

Window

Glass (MTR.S), acrylic (MTR.S-E)

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Filling liquid

Without, glycerine (MTR.S)

Ambient temperature

-20°C ... 70°C

Protection level

IP 67

Contact

Type:

Single contact N.O.

Single contact N.C.

Double contacts N.O.

Double contacts N.O. + N.C.

Double contacts N.C.

Electrical contact specifications

Rated voltage: 250 V (Max.)

Contact capacity: 30 W ~ 50 VA (Max.)

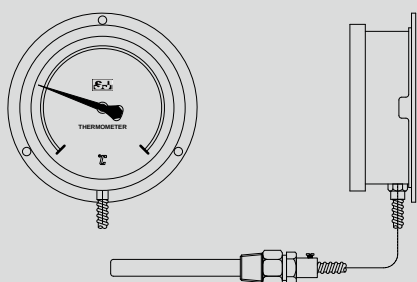
Starting current: 1.0 A (Max.)

Breaking current: 1.0 A (Max.)

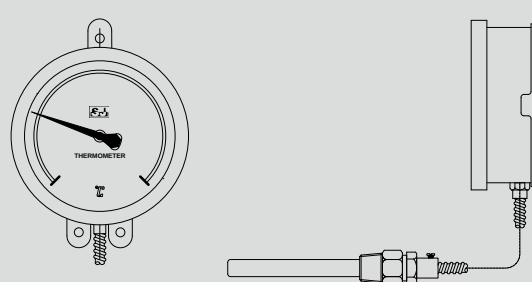
Persistent current: 0.6 A (Max.)

Connection Location

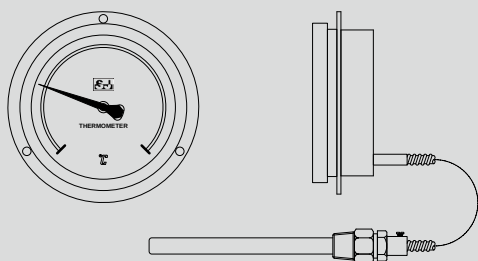
MW Lower mount with surface mounting flange



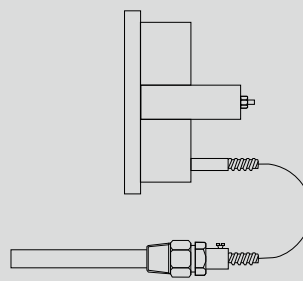
MW-6C 6" lower mount with surface mounting bracket (3 holes)



MF Back mount



MF-U Back mount with U-clamp

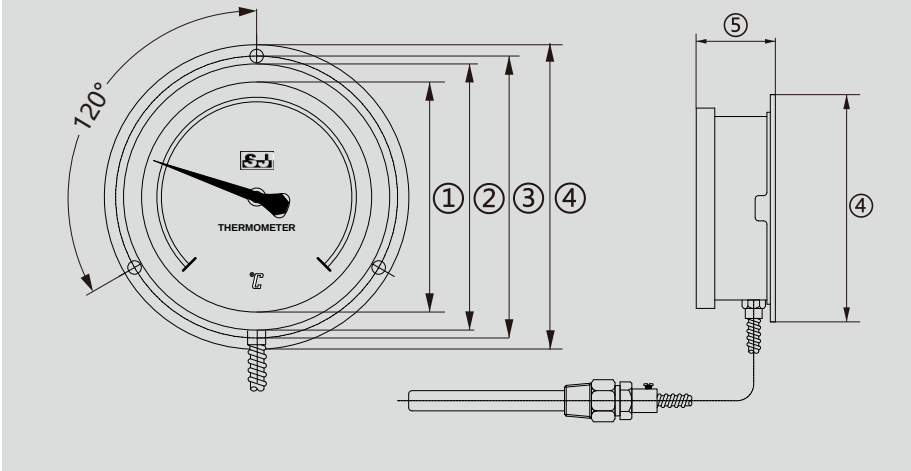


Connection location				
NS	MW	MW-6C	MF	MF-U
2.5"	V	-	V	V
3"	V	-	V	V
* 4"	V	-	V	V
5"	V	-	V	V
* 6"	V	V	V	V

* Note: only 3", 4", 6" can be mounted with electrical contacts (MTR.S-E).

Dimensions

MW Lower mount with surface mounting flange



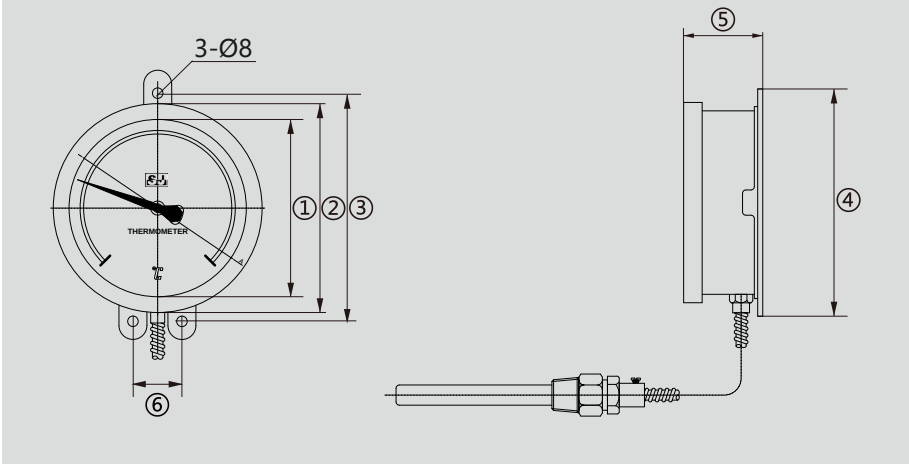
Dimensions (mm)					
NS	①	②	③	④	⑤
2.5"	55	64	75	88	40
3"	70	85	91	102	47
4"	102	119	123	137	48 ^{*1}
5"	110	127	131	145	51
6"	140	160	176	191	47 ^{*2}

* Note:

1. If 4" mounted with electrical contacts, the case height (⑤) is 80 mm.
2. If 6" mounted with electrical contacts, the case height (⑤) is 26 mm (single contact)/40 mm (double contacts)

Dimensions

MW-6C 6" lower mount with surface mounting bracket (3 holes)

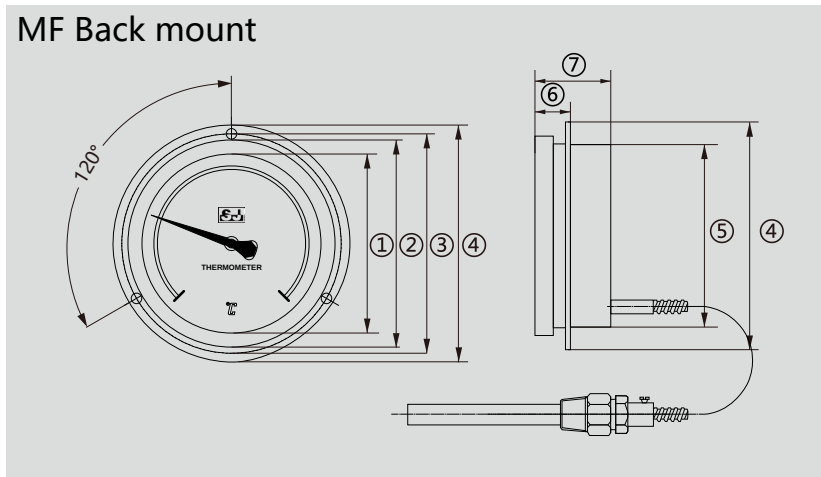


Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
6"	140	160	187	210	47*	51

* Note:

If 6" mounted with electrical contacts, the case height (⑤) is 26 mm (single contact)/40 mm (double contacts)

Dimensions



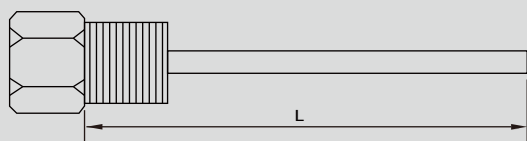
Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
2.5"	55	64	75	88	63	16	40
3"	70	85	91	102	76	16	47
4"	102	119	123	137	108	22	48 ^{*1}
5"	110	127	131	145	117	18	51
6"	140	160	176	191	148	18	47 ^{*2}

* Note:

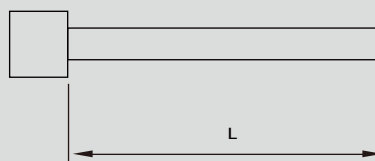
1. If 4" mounted with electrical contacts, the case height (⑦) is 80 mm.
2. If 6" mounted with electrical contacts, the case height (⑦) is 26 mm (single contact)/40 mm (double contacts)

Connection designs

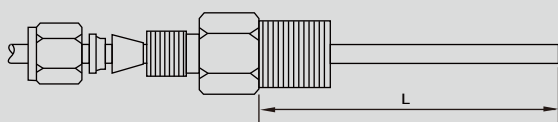
Male thread



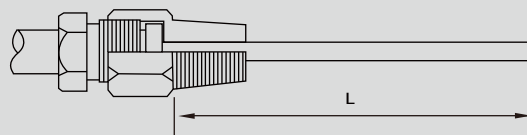
Plain stem



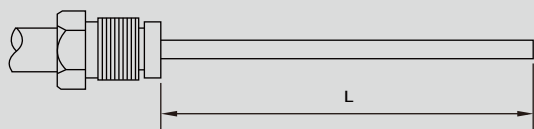
Compression fitting (sliding on stem)



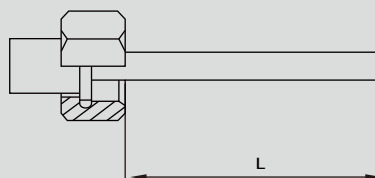
Union nut and loose threaded connection



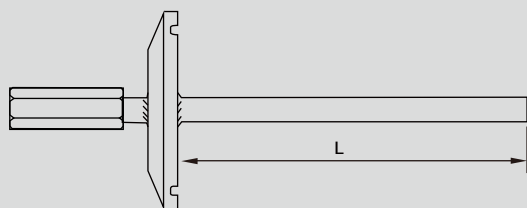
Male nut



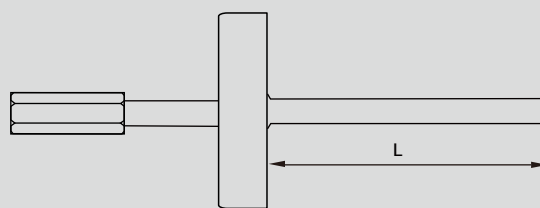
Union nut



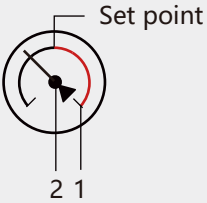
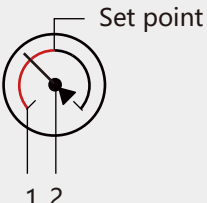
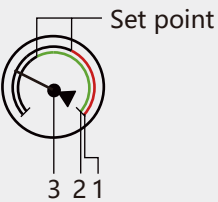
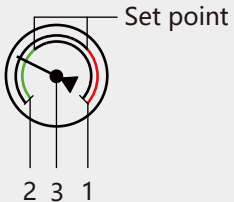
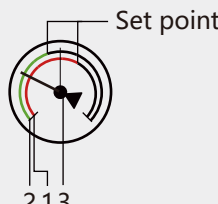
Sanitary tri-clamp



Flange on stem



Contact type

Single contact	
	2R Single contact N.O. S1 contact makes when the pointer reaches the set point.
	2G Single contact N.C. S1 contact breaks when the pointer reaches the set point.
Double contacts	
	3RR Double contacts N.O. S1 and S2 contact make when the pointer reaches the set point.
	3RG Double contacts N.O. + N.C. S1 contact makes and S2 contact breaks when the pointer reaches the set point.
	3GG Double contacts N.C. S1 and S2 contact break when the pointer reaches the set point.

* Note: special contact type can be customized.



※ **Ordering information**

Model / Connection location / Nominal size / Scale range / Process connection /
Connection design / Stem / Capillary length / Filling liquid / Contact type / Options

For any changes to the specifications of this catalogue, the latest version shall prevail.

SIN JIA ENTERPRISE COMPANY LIMITED

TEL: +886-2-2550-4512

FAX: +886-2-2550-4510

info@sinjiagauge.com

www.sj-gauge.com

No.3, Ln. 71, Chifeng St., Datong Dist., Taipei City 103, Taiwan



4ManPro

*Elements For
Manufacturing Processes*



4ManPro
Mexico Branch Office

Elements For Manufacturing Processes

MEXICO BRANCH OFFICE

Roberto Diaz No. 401
Ciudad Industrial
Aguascalientes, Ags.
México
20290

4ManPro@4ManPro.com
(449) 171 3420
www.4ManPro.com/SPA/



USA BRANCH OFFICE

Pennzoil Place
700 Milam
Suite 1300
Houston, Tx, USA
77002

4ManPro-USA@4ManPro.com
+1 (832) 871 5022
www.4ManPro.com/ENG/

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