

Nipple-Union-Nipple

MIEPL Make RTD MTR02 accurately sense temperature with an excellent degree of repeatability and inter change ability of elements. The RTD is composed of certain metallic elements whose change in resistance is a function of temperature. A Nipple Union is available in RTD which directly can mount in process line. These RTDs are widely used in Boiler and Steam application.

**FEATURES**

- Nipple-Union-Nipple extension
- Mineral insulated
- Exchangeable insert
- Spring loaded design

APPLICATION

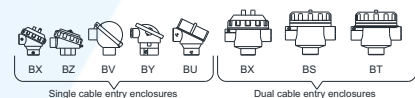
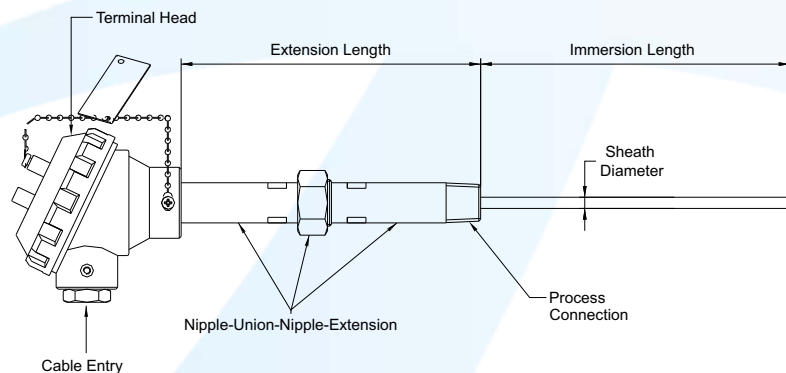
- Chemical & petrochemical
- Oil & gas application
- Water, waste-water treatment
- Power & Utilities

REFERENCE

- IEC-751 / DIN 43760

STANDARD SPECIFICATIONS

| | |
|-----------------------|--|
| Element | : Pt-100, class B |
| Range | : -200...400°C |
| Wire combination | : Simplex, 3 Wire |
| Sheath material | : AISI 316 SS |
| Sheath diameter | : 6.0 mm |
| Head enclosure | : Weatherproof, IP 65, threaded cover |
| Enclosure material | : Die-cast aluminum |
| Cable entry | : 3/4" ET (F), 1 No. |
| Head extension | : NUN assembly in ASTM A105 (Cadmium plated) |
| Head extension length | : 150 mm |
| Immersion length | : 150 mm |
| Process connection | : 1/2" NPT (M) / 1/2" BSP (M) |

DRAWING

All dimensions are in mm.

ORDERING CODE

MTR02 - PT100A - XXX - C - MF - M60 - BZ - ML - CO

| | | PT 100 A | PT 100 B | PT 500 A | PT 500 B | PT1000 A | PT1000 B | XXX | C | MF | M60 | BZ | ML | CO |
|-----------------------|--------------------------------------|----------|----------|----------|----------|----------|----------|-----|---|----|-----|----|----|----|
| 1. ELEMENT | Pt100, Class A | PT 100 A | | | | | | | | | | | | |
| | Pt100, Class B | | PT 100 B | | | | | | | | | | | |
| | Pt500, Class A | | | PT 500 A | | | | | | | | | | |
| | Pt500, Class B | | | | PT 500 B | | | | | | | | | |
| | Pt1000, Class A | | | | | PT1000 A | | | | | | | | |
| | Pt1000, Class B | | | | | | PT1000 B | | | | | | | |
| 2. RANGE | -200...400°C | | | | | | | XXX | | | | | | |
| | 0...600°C | | | | | | | XXX | | | | | | |
| 3. WIRE COMBINATION | Simplex, 2-Wire | | | | | | | | A | | | | | |
| | Simplex, 4-Wire | | | | | | | | D | | | | | |
| | Duplex, 3-Wire | | | | | | | | H | | | | | |
| | Simplex, 3-Wire | | | | | | | | C | | | | | |
| | Duplex, 2-Wire | | | | | | | | F | | | | | |
| | Duplex, 4-Wire | | | | | | | | I | | | | | |
| 4. SHEATH MATERIAL | AISI 316 SS | | | | | | | | | MF | | | | |
| | AISI 316L SS | | | | | | | | | MG | | | | |
| 5. SHEATH DIAMETER | 3.0 mm ² | | | | | | | | | | M30 | | | |
| | 5.0 mm | | | | | | | | | | M50 | | | |
| | 6.0 mm | | | | | | | | | | M60 | | | |
| | 8.0 mm | | | | | | | | | | M80 | | | |
| 6. HEAD ENCLOSURE | WP, IP 65, threaded cover | | | | | | | | | | | BZ | | |
| | WP, IP 67, threaded cover | | | | | | | | | | | BX | | |
| | Flame proof, IP 67, Gr IIA, IIB | | | | | | | | | | | BS | | |
| | Explosion proof, IP 67, Gr IIC | | | | | | | | | | | BT | | |
| | WP, IP 65, Hinged type | | | | | | | | | | | BV | | |
| | WP, IP 65, cover fitted with 2 screw | | | | | | | | | | | BY | | |
| | Ex-Proof to CSA,FM,ATEX [EEx-d]s | | | | | | | | | | | BU | | |
| | Die-cast aluminum | | | | | | | | | | | | ML | |
| 7. ENCLOSURE MATERIAL | AISI 316 SS | | | | | | | | | | | | MF | |
| | AISI 304 SS | | | | | | | | | | | | MC | |
| | | | | | | | | | | | | | | CO |
| 8. CABLE ENTRY | ¾" ET (F), 1 No. | | | | | | | | | | | | | C0 |
| | ½" NPT (F), 1 No. | | | | | | | | | | | | | C1 |
| | M20 x 1.5mm (F), 1 No. | | | | | | | | | | | | | C2 |
| | ¾" NPT (F), 1 No. | | | | | | | | | | | | | C3 |
| | ¾" ET (F), 2 Nos. | | | | | | | | | | | | | C5 |
| | ½" NPT (F), 2 Nos. | | | | | | | | | | | | | C6 |
| | M20 x 1.5mm (F), 2 Nos. | | | | | | | | | | | | | C8 |
| | ¾" NPT (F), 2 Nos. | | | | | | | | | | | | | C9 |

ORDERING CODE

| | | N5 | 4NM |
|--------------------------------|----------------------------------|-------|-----|
| 9. HEAD EXTENSION | Nun assembly in ASTM A 105 | N5 | |
| | Nun assembly in AISI 304 SS | N6 | |
| | Nun assembly in AISI 316 SS | N7 | |
| 10. HEAD EXTENSION LENGTH (XL) | 50 mm up to 250 mm | XXX | |
| 11. IMMERSION LENGTH (IL) | 50 mm up to 10,000 mm | XXXXX | |
| 12. PROCESS CONNECTION | ½" NPT (M) | | 4NM |
| | ½" BSP (M) | | 4BM |
| | ¾" NPT (M) | | 5NM |
| | ¾" BSP (M) | | 5BM |
| | M20 X 1.5 mm (M) | | 4MM |
| 13. OTHER OPTIONS | Plug Fitting For CE, AISI 304 SS | | JB |
| | Plug Fitting For CE, AISI 316 SS | | JC |
| | SC, Cable Gland, Ni-brass WP | | JD |
| | DC, Cable Gland, Ni-brass WP | | JE |
| | SC, Cable Gland,AISI 304 SS WP | | JF |
| | DC, Cable Gland,AISI 304 SS WP | | JG |
| | SC, Cable Gland,AISI 316 SS WP | | JH |
| | DC, Cable Gland,AISI 316 SS WP | | JI |
| | SC, Cable Gland, Ni-brass FP | | JJ |
| | DC, Cable Gland, Ni-brass FP | | JK |
| | SC, Cable Gland,AISI 304 SS FP | | JL |
| | DC, Cable Gland,AISI 304 SS FP | | JM |
| | SC, Cable Gland,AISI 316 SS FP | | JN |
| | DC, Cable Gland,AISI 316 SS FP | | JO |
| | Terminal Head In SS 304 | | JP |
| | Terminal Head In SS 316 | | JQ |
| | Terminal Head In Cast Iron | | JR |
| | SS base Plate For Transmitter | | JS |
| | Head Mount Transmitter | | JT |
| | Plug Fitting For CE, Aluminum | | JU |
| Calibration Certificate | | SB | |
| Tag Plate, AISI 304 SS | | WF | |

Ordering Example **MTR02** - **PT100A** - **XXX** - **C** - **M60** - **BZ** - **ML** - **CO** - **N5** **4NM**

1. Other sheath diameters, materials and connections are available, please contact factory for details.
2. Not available in Double, 4-Wire combinations.
3. WP = Weatherproof, FP = Flame proof, SC = Single Compression, DC = Double Compression, CE = Cable Entry
4. Transmitter output shall be 4...20 mA as standard, any other output required, please contact factory for details
5. NUN assembly in ASTM A105 is provided with Cd plating..