

(WITH PROTECTING TUBE) (WITH GUIDE TUBE) (WITH SPRING LOADING ARRANGEMENT)

MIEPL Make MTT24 Multi-Point Thermocouple Assembly is used Oil & Gas Plant in Catalytic, Crackers, Lime Kilns, distillation and pressurized vessels.



FEATURES

- Mineral Insulation.
- Available in all Standard Sheath Diameters and Sheath material.
- Protecting tube size & material will be as per customer's Requirement.
- Mineral Insulation Enables Flexibility and Durability.
- Enclosures in all Material-Die cast Aluminium / Cast Iron / SS 304 / SS 316.
- Enclosures in all Categories (Weatherproof, IP-65 to IP-68, Flameproof Gr. IIA, IIB, and Explosionproof, Gr. IIA, IIB, IIC for H₂ service application.)

APPLICATION

- These assemblies find application in Refinery & Petrochemical Plants Which includes catalytic crackers, lime kilns, distillation columns pressurised reactor Vessels.

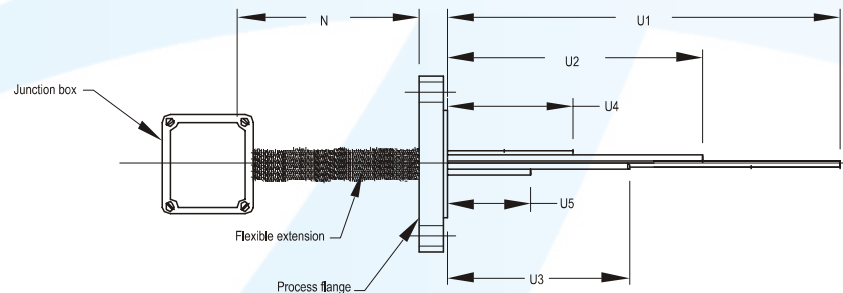
REFERENCE

- IEC-584.2 / ANSI MC-96.1

STANDARD SPECIFICATIONS

| | |
|---------------------------------|-------------------------------------|
| Element | : Type R (Pt-13%Rh/Pt) |
| Element type | : Element with ceramic insulators |
| Accuracy | : Standard to ISA & ANSI MC96.1 |
| No. of sensors | : Simplex |
| Hot junction | : Ungrounded |
| Wire diameter | : 24 AWG (0.511 mm) |
| Terminal head type | : Screwed Type, Weatherproof, IP-65 |
| Terminal head material | : Die-cast Aluminum |
| Cable entry | : 3/4" ET (F), 1 No. |
| Head extension type | : Head with female threading |
| Support tube material | : AISI 446 SS |
| Protecting tube material | : KER - 710, Recrystallised Alumina |
| Protecting tube size (OD X ID) | : 15 x 10 mm |
| Process connection type | : Adjustable connection |
| Process connection | : 3/4" NPT (M) |
| Process connection mat | : ASTM A 105 / Carbon Steel |
| Overall length / Exposed length | : 500 mm / 300 mm |
| Extension Length | : 100 mm |

DRAWING



ORDERING CODE

MTT24 - **k** - **V** - **P** - **G** - **M15** - **ME** - **BZ** - **ML**

| | | | | | | | | | |
|------------------------------|--|----------|----------|----|----------|------------|-----------|-----------|-----------|
| 1. ELEMENT | Type K (NiCr-Ni) | K | | | | | | | |
| 2. NO. OF SENSORS | Simplex | V | | | | | | | |
| | Duplex | W | | | | | | | |
| 3. ACCURACY | Standard | | P | | | | | | |
| | Special | | Q | | | | | | |
| 4. NO OF POINT | 2 RTD | | | 2 | | | | | |
| | 3 RTD | | | 3 | | | | | |
| | 4 RTD | | | 4 | | | | | |
| | 5 RTD | | | 5 | | | | | |
| | 6 RTD | | | 6 | | | | | |
| | 9 RTD | | | 9 | | | | | |
| | 12 RTD | | | 12 | | | | | |
| 4. HOT JUNCTION | Grounded | | | | G | | | | |
| | Ungrounded | | | | U | | | | |
| 5. SHEATH DIAMETER | 1.5mm | | | | | M15 | | | |
| | 3.0 mm | | | | | M30 | | | |
| | 4.5 mm | | | | | M45 | | | |
| | 6.0 mm | | | | | M60 | | | |
| | Consult factory for other size. | | | | | | | | |
| 6. SHEATH MATERIAL | AISI 310 SS | | | | | | ME | | |
| | AISI 316 SS | | | | | | MF | | |
| | Inconel 600 | | | | | | MQ | | |
| 7. 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 screws | | | | | | | BY | |
| | Ex-Proof to CSA,FM,ATEX [EEx-d]Die-cast aluminum | | | | | | | BU | |
| 8. ENCLOSURE MATERIAL | Die-cast aluminum | | | | | | | | ML |

ORDERING CODE

CO - M6 - U1 - MB - FC - SB

| | | | | | | | | |
|---------------------------|------------------------------------|-------------|----------------------------------|----|----|--|----|------|
| 9. CABLE ENTRY | 3/4" ET (F), 1 No. | | C0 | | | | | |
| | 1/2" NPT (F), 1 No | | C1 | | | | | |
| | 3/4" NPT (F), 1 No. | | C3 | | | | | |
| | 3/4" ET (F), 2 Nos. | | C5 | | | | | |
| | 1/2" NPT (F), 2 Nos. | | C6 | | | | | |
| | 3/4" NPT (F), 2 Nos. | | C9 | | | | | |
| | 10. PROTECTION TUBE MATERIAL | AISI 316 SS | | | MF | | | |
| AISI 316L SS | | | | MG | | | | |
| AISI 446 SS | | | | ME | | | | |
| Inconel 600 | | | | MQ | | | | |
| 11. PROTECTION TUBE | Tube Ø10 x 1.5 mm THK | | | | U1 | | | |
| | Tube Ø12 x 1.5 mm THK | | | | U2 | | | |
| | Pipe 3/8" Sch 40 | | | | U3 | | | |
| | Pipe 3/8" Sch 80 | | | | U4 | | | |
| | Pipe 1/2" Sch 40 | | | | U5 | | | |
| | Pipe 1/2" Sch 80 | | | | U6 | | | |
| | Pipe 3/4" Sch 40 | | | | U7 | | | |
| | Pipe 3/4" Sch 80 | | | | U8 | | | |
| 12. FLANGE MATERIAL | ASTM A 105 (CS) | | | | | | MB | |
| | A 182 F316 | | | | | | MF | |
| | Consult factory for other material | | | | | | | |
| 13. FLANGE TYPE/ SIZE | Fixed connection | | | | | | | FC |
| 14. IMMERSION LENGTH (IL) | 50 mm up to 5,000 mm | | | | | | | XXXX |
| 15. EXTENSION LENGTH (TL) | 50 mm up to 250 mm | | | | | | | XXX |
| 16. OTHER OPTIONS | Calibration Certificate | SB | SC, cable gland, AISI 316 SS WP | | | | | JH |
| | Tag plate, AISI 304 SS | WF | DC, cable gland, AISI 316 SS WP | | | | | JI |
| | SC, cable gland, Ni-brass WP | JD | SC, cable gland, AISI 316 SS FP | | | | | JN |
| | DC, cable gland, Ni-brass WP | JE | DC, cable gland, AISI 316 SS FP | | | | | JO |
| | SC, cable gland, Ni-brass FP | JJ | Plug fitting for CE, AISI 304 SS | | | | | JB |
| | DC, cable gland, Ni-brass FP | JK | Plug fitting for CE, AISI 316 SS | | | | | JC |
| | SC, cable gland, AISI 304 SS WP | JF | Plug fitting for CE, Aluminum | | | | | JU |
| | DC, cable gland, AISI 304 SS WP | JG | SS base plate for transmitter | | | | | JS |
| | SC, cable gland, AISI 304 SS FP | JL | Head mount transmitter | | | | | JT |
| | DC, cable gland, AISI 304 SS FP | JM | | | | | | |

Ordering Example MTT24 - K - V - P - G - M15 - ME - BZ - ML - CO - M6 - U1 - MB - FC - SB

1. When selecting option "SB", Please also specify measuring temperature range.(e.g.o/300°C).