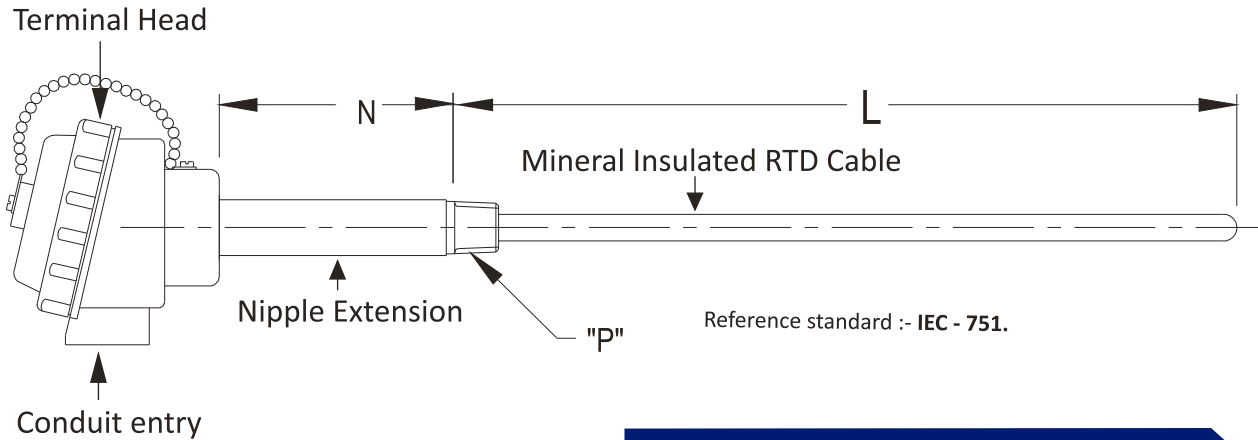


# RTD ASSEMBLY WITH NIPPLE CONNECTION

RTD1



## Special Features :

- ★ Mineral insulation.
- ★ Spring loaded design for positive contact with thermowell
- ★ Available in all sheath diameters
- ★ 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 and Gr. IIA, IIB, IIC for H service application.)

## How to Order:

| Code | No of Element |
|------|---------------|
| S    | Simplex       |
| D    | Duplex        |

1

| Code      | Element Type  |
|-----------|---------------|
| Pt - 100  | Pt - 100 RTD  |
| Pt - 500  | Pt - 500 RTD  |
| Pt - 1000 | Pt - 1000 RTD |
| Cu - 53   | Cu - 53       |

2

| Code | Range             |
|------|-------------------|
| DST  | -200°C till 449°C |
| NST  | 450°C till 600°C  |

3

| Code | Accuracy                             |
|------|--------------------------------------|
| A    | Class 'A' Tolerance as per IEC - 751 |
| B    | Class 'B' Tolerance as per IEC - 751 |

4

| Code | Wire Configuration |
|------|--------------------|
| 2W   | 2 Wire System      |
| 3W   | 3 Wire System      |
| 4W   | 4 Wire System      |

5

## Application :

Such assemblies are generally inserted in existing Thermowells / Protection Tubes.

## Standard Product details :

|                              |   |
|------------------------------|---|
| No of element                | Simplex   |
| Element type                 | Pt - 100 RTD  |
| Range                        | -200°C till 449°C                                       |
| Accuracy                     | Class 'B' Tolerance as per IEC - 751                    |
| Wire Configuration           | 3 Wire System   |
| Sheath Diameter              | 6.0 mm  |
| Sheath Material              | SS 316  |
| Terminal Head Type           | Screwed type, weatherproof, IP-65 in Die-cast Aluminium |
| No. Of Conduit Entry/Entries | One   |
| Conduit Entry Size           | 3/4" ET(F)  |
| Head Extension Type          | Head - Nipple Extension in Cd plated CS                 |
| Immersion Length "L"mm       | 300 mm  |
| Extension Length "N"mm       | 100 mm  |
| Process conn. "P"            | ½" NPT(M)   |
| Option Description           | S.C. cable gland in nickel plated brass                 |

| Code   | Sheath Diameter |
|--------|-----------------|
| 3      | 3.0 mm          |
| 3/ 2.8 | 3.0/ 2.8 mm*    |
| 6      | 6.0 mm          |
| 6/ 5   | 6.0/ 5.0 mm*    |
| 8      | 8.0 mm          |
| 8/ 5   | 8.0/ 5.0 mm*    |

Consult factory for other diameter,  
\* RTD Element will be enclosed in  
Ø3.0 mm SS 316 sheath & Extended by  
Ø2.8 mm Mineral Insulated lead out cable.

6

| Code | Sheath Material |
|------|-----------------|
| 316  | SS 316          |

7

| Code | Terminal Head Type  |
|------|---|
| SWP  | Screwed type, weatherproof, IP-65 in die-cast Aluminium                           |
| SFP  | Screwed type, flamerproof Gr. IIA IIB in die-cast Aluminium                       |
| SEP  | Screwed type, explosionproof Gr.IIC in die-cast Aluminium                         |
| HWP  | Hinged type, weatherproof, IP-65 in die-cast Aluminium                            |
| JWP  | Junction box, weatherproof, IP-65 in die-cast Aluminium                           |
| JFP  | Junction box, flamerproof Gr. IIA IIB in die-cast Aluminium                       |
| JEP  | Junction box, explosionproof Gr.IIC in die-cast Aluminium                         |
| BWP  | Weatherproof Head, IP-65 in die-cast Aluminium with cover fitted with two screws. |

8

| Code | No. Of Conduit Entry/Entries |
|------|------------------------------|
| 1    | One                          |
| 2    | Two                          |
|      | Other, Please Specify        |

9

| Code | Conduit Entry Size    |
|------|-----------------------|
| A    | 3/4" ET(F)            |
| B    | 1/2"NPT(F)            |
| C    | 3/4"NPT(F)            |
|      | Other, Please Specify |

10

| Code | Head Extension Type                     |
|------|---|
| N    | Head - Nipple Extension in Cd plated CS |

11

| Code | Immersion Length "L"mm |
|------|------------------------|
|      | Specify in mm.         |

12

| Code | Extension Length "N"mm |
|------|------------------------|
|      | Specify in mm.         |

13

(Ordering Example)

|             |   |          |     |   |    |   |     |     |   |    |    |     |     |    |    |
|-------------|---|----------|-----|---|----|---|-----|-----|---|----|----|-----|-----|----|----|
| <b>RTD1</b> | S | (Pt-100) | DST | B | 3W | 6 | 316 | SWP | 1 | A  | N  | 300 | 100 | A  | 6  |
|             | 1 | 2        | 3   | 4 | 5  | 6 | 7   | 8   | 9 | 10 | 11 | 12  | 13  | 14 | 15 |

| Code | Process conn. "P"     |
|------|-----------------------|
| A    | 1/2"NPT(M)            |
| B    | 1/2" BSP(M)           |
| C    | 3/4"NPT(M)            |
| D    | 3/4" BSP(M)           |
|      | Other, Please Specify |

14

| Code | Option Description                                   |
|------|--|
| 0    | None   |
| 3    | Terminal head in SS 304                              |
| 4    | Terminal head in SS 316                              |
| 5    | Terminal head in Cast Iron                           |
| 6    | S.C. cable gland in nickel plated brass              |
| 7    | D.C. cable gland in nickel plated brass              |
| 8    | S.C. cable gland in SS 304                           |
| 9    | D.C. cable gland in SS 304                           |
| 11   | S.C. cable gland in SS 316                           |
| 12   | D.C. cable gland in SS 316                           |
| 13   | Head mounted temp. transmitter                       |
| 14   | S.S. base plate suitable for Temperature Transmitter |
| 16   | Head Extension in SS 304.                            |
| 17   | Head Extension in SS 316.                            |
| 20   | Plug for conduit entry in Carbon Steel [ASTM A105]   |
| 21   | Plug for conduit entry in SS 304                     |
| 22   | Plug for conduit entry in SS 316                     |
| 23   | Plug for conduit entry in Aluminium                  |
| PW   | Five Point Factory Calibration Certificate           |
| SX   | SS Tag Plate   |

15

Note :

- When selecting option "PW", please also specify measuring temperature range.(For e.g. 0/300°C)
- Explanations of Abbreviations used:  
SC = Single Compression  
DC = Double Compression  
SS = Stainless Steel

Distributor



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