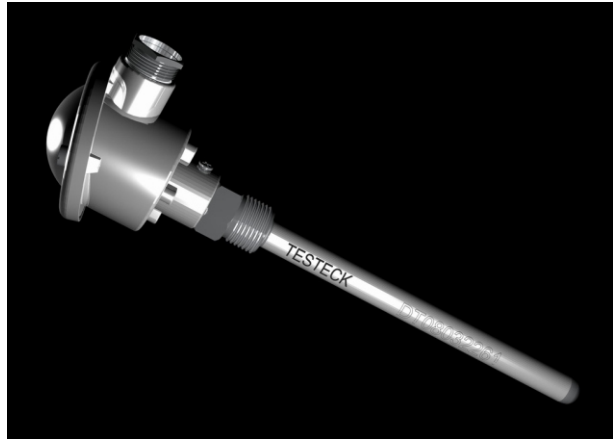


## With Connection Head RTD

### Description

With connection head RTD are especially suited for applications where the metal sensor tip is fitted directly into drilled holes, e.g. in machine parts, in turbine air cooler, or directly into the process, i.e. for all applications without chemically-aggressive media and without abrasion. Mounting is usually carried out directly in the process. Fastening elements such as threads, union nuts etc. can be used optionally.



**Water-proof Head**

### Special Features

- Application ranges from -200 °C to +600 °C
- For insertion, screw-in with optional process connection
- Connection head Form water-proof head or binder plug with etc.

### Applications

- For direct process connection
- Machine building
- Motors
- Storage
- Pipelines and tanks



**Binder Plug With**

### Technical Data

Sensor method of connection

- 2-wire The lead resistance compounds the error.
- 3-wire With a cable length of approx. 30 m or longer measuring deviations can occur.
- 4-wire The inner lead resistance of the connecting wires is negligible.

## Technical Data

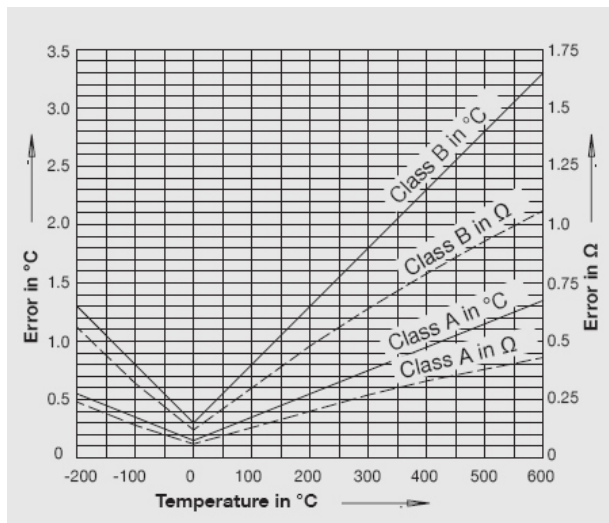
Sensor limiting error

- Class B per DIN EN 60 751
- Class A per DIN EN 60 751

It makes no sense to combine 2-wire connection with Class A, since the lead resistance of the cable overrides the higher sensor accuracy.

Class	Limiting error in °C
A	$0.15 + 0.002 \cdot  t $ <sup>1)</sup>
B	$0.3 + 0.005 \cdot  t $

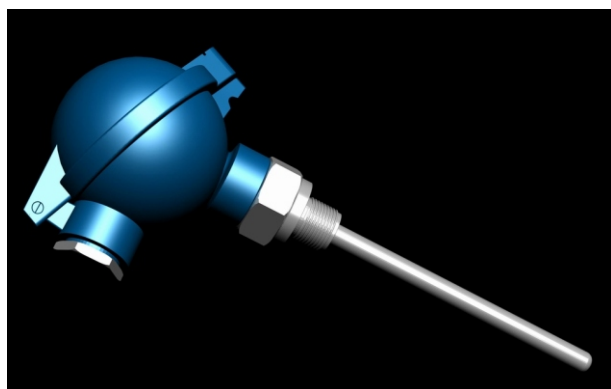
1) |t| is the value of the temperature in °C without consideration of the sign



Temperature (ITS 90) °C	Basic value Ω	Limiting error DIN EN 60 751			
		Class A		Class B	
		°C	Ω	°C	Ω
-50	80.31	± 0.25	± 0.10	± 0.55	± 0.22
0	100.00	± 0.15	± 0.06	± 0.30	± 0.12
50	119.40	± 0.25	± 0.10	± 0.55	± 0.21
100	138.51	± 0.35	± 0.13	± 0.80	± 0.30
150	157.33	± 0.45	± 0.17	± 1.05	± 0.39
200	175.86	± 0.55	± 0.20	± 1.30	± 0.48
250	194.10	± 0.65	± 0.24	± 1.55	± 0.56

## Physical Dimension

According to customer demand completeness.



Water-proof Head