

Construction

Application

A range of high accuracy miniature embedded (also known as embedment) Pt100 sensors designed for surface temperature measurements in general industrial applications such as in bearing shoe applications to give a reliable indication of bearing wear and oil film breakdown through continuous monitoring of temperature. These tip sensitive resistance thermometers have an operating temperature range of -25°C to +250°C and can be supplied with a pressure tested oil seal barrier to prevent leakage. Standard assemblies are easy to install in drilled holes for general temperature sensing applications, whereas the spring loaded 'top hat' style assemblies are inserted into a milled hole with a retaining clip pushed down to compress the spring and retain the sensor against the surface being monitored.



Sensor

Type

Simplex or Duplex Pt100

Accuracy

According to IEC 60751 class B

Operating range

-25 / +230°C

Connection

2-wire or 3-wire

Material

Stainless steel or phosphor bronze

Diameter

3.2mm or 6.0mm

Length simplex sensor

8.0mm standard, or contact us to specify

Length duplex sensor

12mm standard, or contact us to specify

Cable

Conductors

Silver plated copper conductors with PTFE insulation

Length

1000mm standard, other lengths possible

Options

Cable

PTFE wire insulation and outer jacket (TT)

Cable with internal armour

Stainless steel braiding with overall PTFE jacket (TAT)

Cable with external armour

PTFE cable jacket with external Stainless steel braiding (TTA)

Explosion proof versions

ATEX / IECEx versions available, please consult us

Oil seal part

Standard 60 x 4.75mm, length away from

Other dimensions

Please consult us

Ordering code

*This datasheet is purely indicative, build-up of model code may vary from this datasheet.

Model	MBA	TT, TAT, TTA	S or D	2 or 3	"L"
Cable type		↑			
Pt100 Single or Duplex			↑		
Connection 2 or 3-wire				↑	
Cable length "L" in mm					↑