DATA SHEET

Type TST001

Resistance thermometer

- With transmitter
- Wide range of applications for neutral mediums and aggressive fluids

Product variants described in the data sheet may differ from the product presentation and description.

Type description

Temperature measuring with 1xPt100 temperature probe integrated in stainless steel tube. The measuring unit is welded according to DIN IEC 751 and cannot be replaced.

DTS 1000108586 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

© Christian Bürkert GmbH & Co. KG, Subject to alteration

Visit product website

Table of contents

1. General technical data 3

2. Approvals and conformities 3

2.1. General notes ... 3
2.2. Conformity ... 3
2.3. Standards ... 3

3. Materials 3

3.1. Bürkert resistApp ... 3

4. Dimensions 4

5. Ordering information 5

5.1. Bürkert eShop ... 5
5.2. Bürkert product filter ... 5
5.3. Ordering chart ... 5
5.4. Ordering chart accessories ... 5

DTS 1000108586 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 4.
Material	
Protection tube material	Stainless steel 1.4571
Circuit type	2-wire circuit
Connection	External thread G ½ A
Electrical data	
Output signal	4 up to 20 mA (corresponds to a range from 0...+ 150 °C)
Measuring current	Approx. 1 mA (film measuring resistor)
Performance data	
Measuring range	0...+ 150 °C
Accuracy	Class B (ΔT [degree]= ± 0.3 ± 0.005 T [°C])
Approvals and conformities	
Protection class	IP67 with connector
Process/Port connection & communication	
Electrical connections	Lumberg connector with/without cable
Environment and installation	
Ambient temperature	Max. + 85 °C

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

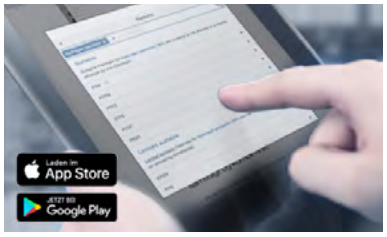
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

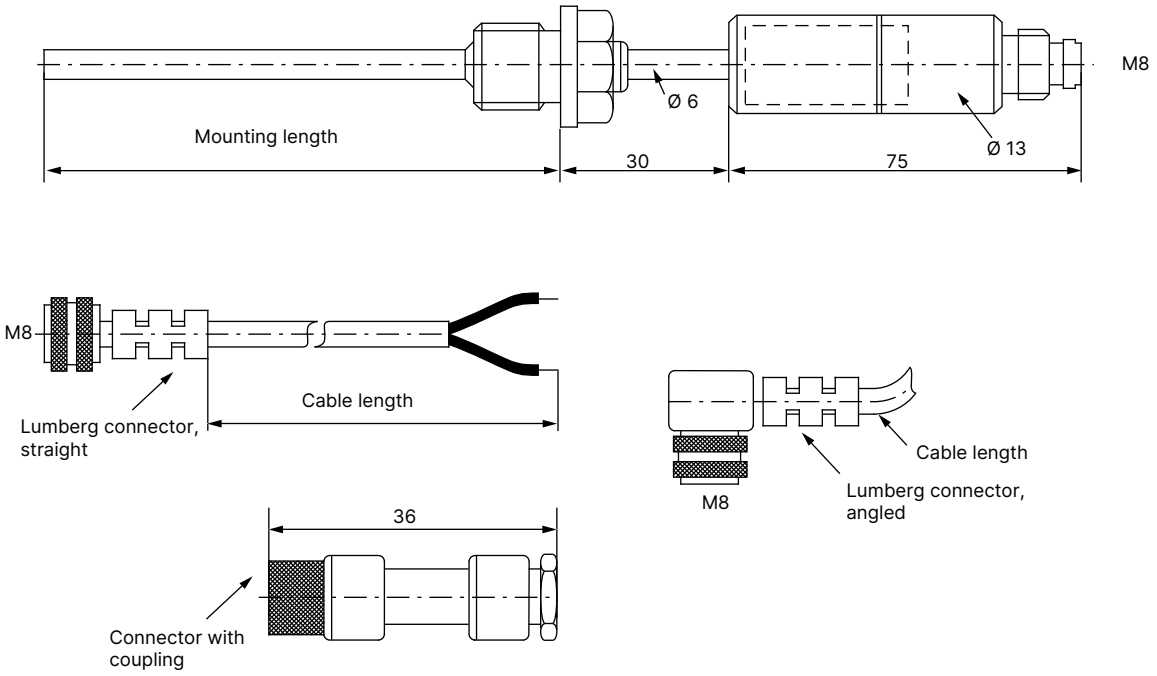
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

DTS 1000108586 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

4. Dimensions

Note:
Dimensions in mm



DTS 1000108586 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

5. Ordering information

5.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

5.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

5.3. Ordering chart

Mounting length [mm]	Thread	Article no.
40	G ½	784334
50	G ½	784335

5.4. Ordering chart accessories

Round connector, 4-pin, Lumberg	Cable length	Article no.
Straight	2 m	784337
Straight	5 m	784338
Angled	2 m	784339
Angled	5 m	784340
With coupling	–	784336

DTS 1000108586 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026