



EN ISO 3650

Special high-alloy steel, wear resistant and stable

Grade K

Expanded uncertainty  $k = 2$   
is valid for the given one

Wooden case

Identification number

For calibration certificates, see opposite



Temperature Sensors

PT 100 platinum resistances, 4-wire type

Temperature Device

Multi-channel precision thermometer equipped with a switch for the measuring points

4-wire measuring method with continuous value acquisition over connected sensors. PT100 linearisation according to EN 60751.

0,001 °C

RS 232 or IEEE 488

115 ±10% Vac or 230 ±10% Vac. For 50 and 60 Hz

EN 61010, EN 50081, EN 50082 EN 55011

Additional technical data listed on page K-8

## Additional Gauge Block Set for the Calibration of TESA UPD

To achieve the lowest uncertainty of measurement, we recommend the use of reference standards of grade K, which are measured directly by interferometry and come along with a calibration certificate. And this, irrespective of any other requirement such as the ambient conditions.



### 9-piece gauge set for the calibration of TESA UPD

Set composition as listed in table opposite. Supplied with:

<b>S59300103</b>	Calibration certificate issued by the laboratory of a national institute of metrology Metas (Switzerland)	$\pm(0,02+0,2 \cdot L) \mu\text{m}$ L in m	Measuring method: direct interferometry
<b>S59300107</b>	PTB (Germany)		
<b>S59300104</b>	Calibration certificate issued by a laboratory officially accredited SCS	$\pm(0,05+0,5 \cdot L) \mu\text{m}$ L in m	Measuring method: by comparison



Set Composition (mm)  
1 5 10 15 20 25 50 75 100



Steel



Accuracy grade K

Other set compositions or carbide gauge blocks also available on request.

## TESA UPT Temperature Devices



05930011

### TESA UPT temperature device for TESA Gauge Block Comparators

Fully calibrated for the measuring ranges from 19°C up to 24°C with a numerical interval to 0,001 °C. Supplied with a calibration certificate issued by the Swiss Calibration Service (SCS). Uncertainty of measurement achieved during calibration  $U = \pm 0,03^\circ\text{C}$ .

Consisting of:

05960018

1 Set of 4 temperature sensors

PT100 platinum resistances giving exceptional long-term stability while drifts are kept to a minimum over years of use.

This set includes the following sensors:

- 1 Temperature sensor with clamp R for reference gauge blocks having nominal lengths from about 14 mm, No. 05960009.
- 1 Temperature sensor with clamp P for gauge blocks to be calibrated having nominal lengths from about 14 mm, No. 05960008
- 2 Temperature sensors to be mounted on the measuring stand or the table.  
3 g8 PT100 diameter, 10 mm long. Order number for 1 item: 05960010.

05960038

1 Measuring unit for temperature

Precision thermometer including a switch for the measuring points.

With use of the PT 100 platinum resistances, provides 4 measuring channels with a 0,001 °C numerical interval. RS 232 or IEEE 488 data output. 115 or 230 Vac for 50 or 60 Hz.

05960012

1 Adapter. Allows up to 4 temperature sensors to be connected.

05960011

1 Connecting cable

For adapter No 05960012 to measuring unit No 05960038.

05960026

### Connecting cable

For serial data transfer from temperature device to computer, 9-pin/m and 9-pin/f connector.

