

## Calibrated Systems Pt 100

**General:**

The overall error of a measuring consists of the sum of the instrument error and the probe error. To minimize the overall error, we offer calibrated and optimized systems below. Due to their excellent system accuracy they are especially suitable for quality assurance according to ISO9000ff, as reference instruments in manufacturing processes, laboratory, service and maintenance, etc.

The system optimization is done via a special characteristic curve which is determined for each temperature probe separately and stored in the instrument (GMH 3750) or with probe adjusting via offset and slope input (GMH 3710). Because of the low measuring current there is no self heating effect of the sensor (thermoelectric compensation).

**GMH 3750/SET1**

Art. no. 602690

Measuring set incl. ISO certificate of calibration

**Specifications:**

<b>optimized measuring range:</b>	-20 ... +70 °C
<b>Temperature probe:</b>	GTF 401 DIN Kl. AA, Pt100, 4-wire
<b>System accuracy:</b>	better than 0.07 °C (at opt. range)
<b>Calibration points:</b>	-20 °C / 0 °C / +70 °C

**GMH 3750/SET2**

Art. no. 602691

Measuring set incl. ISO certificate of calibration

**Specifications:**

<b>optimized measuring range:</b>	0 ... +250 °C
<b>Temperature probe:</b>	GTF 401 DIN Kl. AA, Pt100, 4-wire
<b>System accuracy:</b>	better than 0.3 °C (at opt. range)
<b>Calibration points:</b>	0 °C / 100 °C / 250 °C

**GMH 3710/SET1**

Art. no. 602687

Measuring set incl. ISO certificate of calibration

**Specifications:**

<b>optimized measuring range:</b>	-20 ... +70 °C
<b>Temperature probe:</b>	GTF 401 DIN Kl. AA, Pt100, 4-wire
<b>System accuracy:</b>	better than 0.1 °C (at opt. range)
<b>Calibration points:</b>	-20 °C / 0 °C / +70 °C

**GMH 3710/DKD1**

Art. no. 602689

Measuring set incl. DAKS calibration certificate DIN 17025

**Specifications:**

<b>optimized measuring range:</b>	-20 ... +70 °C
<b>Temperature probe:</b>	GTF 401 DIN Kl. AA, Pt100, 4-wire
<b>System accuracy:</b>	better than 0.1 °C (at opt. range)
<b>Calibration points:</b>	-20 °C / 0 °C / +70 °C

**Scope of supply:**

Measuring device GMH 3750 or GMH 3710, temperature probe GTF 401 DIN Kl. AA, plastic case GKK 3500 and ISO certificate of calibration with 3 calibration points.

## Precision Thermometer Pt 1000

**GMH 175**

Art. no. 600054

Precision Thermometer with 3.5 mm jack connector, without accessories, Battery/mains operation, for plug-in probes, Pt1000 2-wire

**Application:**

high-precision measurements in liquids, soft media, air/gases

**Specifications:**

<b>Measuring range:</b>	-199.9 ... +199.9 °C
<b>Resolution:</b>	0.1 °C
<b>Accuracy: (at nominal temperature = 25 °C)</b>	
<b>Device:</b>	0.1 °C ±1 digit (within range of: -70.0 ... +199.9 °C)
<b>Display:</b>	3½ digit, LCD display approx. 13 mm high
<b>Working temperature:</b>	-30 ... +45 °C (low temperature - for use in cold storage rooms!)
<b>Storage temperature:</b>	-30 ... +70 °C
<b>Power supply:</b>	9 V-Battery (included) as well as additional d.c. connector for external 10.5-12 V direct voltage supply. (suitable power supply: GNG10/3000)
<b>Battery life:</b>	approx. 200 operating hours
<b>Housing:</b>	impact resistant ABS plastic case, membrane keyboard, transparent panel, integrated pop-up clip
<b>Dimensions:</b>	approx. 142 x 71 x 26 mm (H x W x D)
<b>Weight:</b>	approx. 160 g (incl. battery)
<b>Scope of supply:</b>	Device, battery, manual

**Accessories and spare parts:****GB 9 V**

Art. no. 601115  
spare battery

**ST-R1**

Art. no. 601066  
device protection bag with cut-out for probe connection