

GLÖTZL Baumeßtechnik

ELECTRIC TEMPERATURE TRANSDUCER

The temperature sensors GPT have a temperature-dependent platinum resistor PT 100 with a nominal resistance of 100 Ohm at 0 °C. For compensation of line resistances, they are constructed in three- or four-conductor technics. The sensors are very robust and suitable for application under rough site conditions. According to temperature range and required accuracy, the sensor GPT is used, for higher requirements the sensor GPT-E is more suitable.

Type: GPT . .

Art. No.: 67.02

For application in an extended temperature range, a special cable is required.



Figure: Readout unit FMG 01-2



Figure: Temperature transducer in standard housing and in press-in housing



Figure: Readout unit VMG 14.1

Besides the standard version, the sensors are also available in special models which are suitable for pressing into the underground. Furthermore, the standard version can also be delivered with additional cable screwing and strain relief.

For manual reading of single measuring points, the FMG 01-2, or the multimeter VMG 14.1 can be used. The necessary supply for the temperature sensors is placed in the measuring instruments.

The used measuring instruments contain a line compensation in four-conductor technics and also a linearization of measured values according to DIN 43 760.

Technical data:

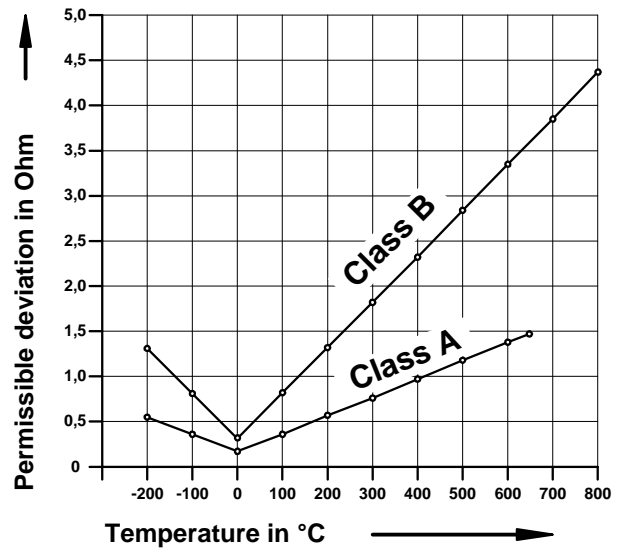
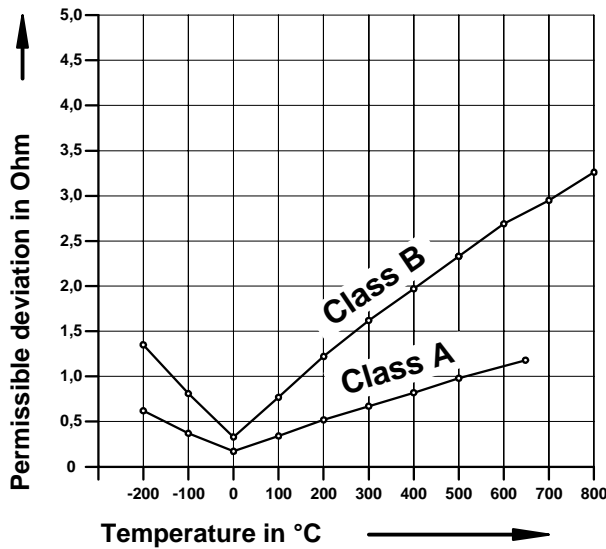
Absolute accuracy:	acc. to DIN 43760 class A, B, 1/3A
Standard temperature range:	- 25 °C up to + 75 °C
Extended temperature range:	- 55 °C up to +180 °C
Special temperature range:	- 100 °C up to +260 °C

Higher accuracy ranges can be quoted on request.

Type codes:

GPT	Standard sensor
GPT-E	Standard sensor with extended temperature range
GPT-P	Temperature sensor to press in, connection thread R 1/4"
GPT-EP	Temperatur sensor to press in, extended temperature range, connection thread R 1/4"

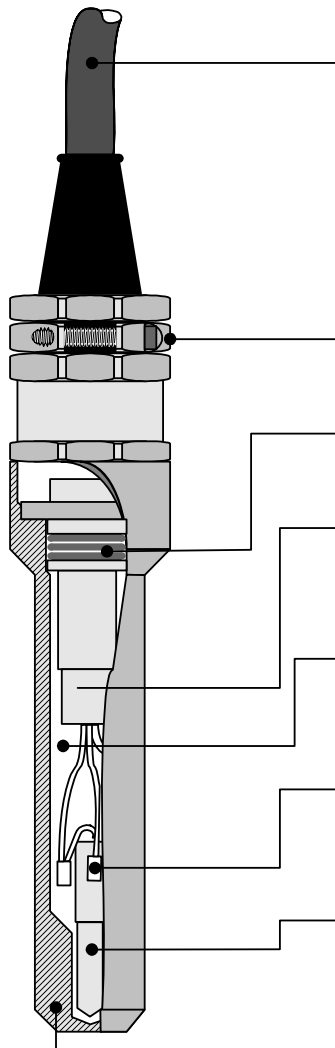
Permissible deviation from basic values acc. to DIN



Sensor: Construction

Standard transducer GPT

with extended temperature range GPT-E



Lapptherm 120, 5x0.5 mm² screened
 Special insulation on PVC base
 Temperature range -10 °C up to +105 °C
 short-time +120 °C
 Nominal voltage 500 V

PG-screwing and mechanical strain relief

Sealing material O-ring
 Perbunan temp. up to +100 °C

Intern. casing

Sealing compound epoxy resin
 Application temperature -20 °C up to +100 °C

Cable connection
 Meas. cable transducer soldered

Sensor PT 100
 acc. to IEC 751 resp. DIN class B

Casing stainless steel 1.4305

Siflex 4x0.5 mm² screened
 Refined wired cord of galvanized E-Cu wires, insulating cover and outer casing silicone base
 Temperature range -10 °C up to 105 °C
 short-term +120 °C
 Nominal voltage 500 V

Sealing material O-ring
 Viton temp. up to +200 °C

Sealing compound silicone
 Application temperature -40 °C up to +180 °C