AX 112-G3-OK



Precision Pt100 4-wire Gas-Probes



- Class A sensor
- For direct connection to instrument:
 One-Hand-Operation
- Robust for many years of professional use
- Compact construction: Ø3 mm
- Fast

DESCRIPTION

AX 112-G3-OK are precision analog Pt100 gas temperature probes based on thin film sensor technology.

The probes are designed for use in clean gases, like ambient air.

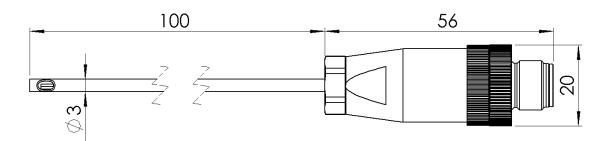
The open construction results in fastest possible response.

The sensors are plugged directly into the display units PRO 111 or PRO 115 to enable one-handed operation.

The compact design achieves the best possible response time and allows measurement even in inaccessible places.

The sensor tube is made of rustproof and temperature-resistant stainless steel.

The probes can be optionally supplied with a DAkkS-/ACCREDIA calibration certificates when combined to a suitable display instrument.



TECHNICAL SPECIFICATION

| Measuring element | Pt100, thin film sensor | | |
|----------------------------------|---|--|--|
| Construction | Ø3 mm stainless steel tube with gas openings, exposed sensor element inside | | |
| Accuracy | Tolerance class A *) | | |
| Measuring range | -50 +250 °C | | |
| Response time (T ₉₀) | gas 2 m/s approx. 15s | | |
| Output | Pt100 4-wire | | |
| Connection | M12 4-pole male A-coded | | |
| Cable | none, optionally use with connection cable CABLE-M12-L01 | | |
| Dimensions | Stem: Ø3 mm, L = 230 mm (other lengths on request) | | |
| Weight | 30 g approx. | | |
| Materials | Stem: AISI 316L (1.4404) | | |
| Application | Fast and accurate measurement in clean and dry gases | | |

*) following tolerance classes of platinum resistors are standardized according/aligning to IEC 751 and EN 60751:

| Tolerance class Norm | | limiting deviation in °Kelvin | wire wound | thin film |
|----------------------|--------------------|---|-----------------|----------------|
| В | IEC 751 / EN 60751 | $\pm (0,30 + 0,00500 \bullet temperature)$ | -196 to +600 °C | -50 to +500 °C |
| Α | IEC 751 / EN 60751 | $\pm (0,15 + 0,00200 \bullet temperature)$ | -100 to +450 °C | -30 to +300 °C |
| AA (= 1/3 B) | IEC 751 / EN 60751 | $\pm (0.10 + 0.00167 \bullet temperature)$ | -50 to +250 °C | 0 to +150 °C |
| 1/10 B | none | $\pm (0.03 + 0.00050 \bullet temperature)$ | -50 to 100 °C | |

Depending on the class, the limiting deviation is only valid within the named limited range.

Higher deviations are to be expected outside the limited range of validity.

Ageing and vibration can lead to drift, which further reduces accuracy.

The measuring range must not be exceeded under any circumstances, otherwise in the worst case the sensor may be destroyed or at least the accuracy reduced.

STANDARD ARTICLES

AX112-G3-OK-A-100 Pt 100 air / gas probe \emptyset 3 mm for clean media, class A 4 wire, M12 Connector probe stem \emptyset 3 mm x 100 mm Art no. 488965

ACCESSORIES

CABLE-M12-L01 Connection cable M12 5 pole, 1m Art no. 487020

SUITABLE INSTRUMENTS

PRO 111 High precision thermometer for Pt100 4 wire probes, M12 socket 4-pole, graphic display. Supplied in carton box, with 4 x AA alkaline batteries, QuickStart, test-protocol

Art no. 486650

PRO 115 High precision thermometer for Pt100 4 wire probes, M12 socket 4-pole, graphic display. Supplied with 4 x AA alkaline batteries, QuickStart, test-protocol, USB cable. Free Software ProXware

downloadable from Senseca website

Art no. 486651

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