

MKT 50 Millikelvin Thermometer for Temperature Measurements in the Petroleum Industry

Relevant for: Petroleum Industry, education, research, material science, calibration laboratories

Temperature measurement is one of the most frequently performed determinations of a physical parameter and it is part of the calibration procedure in the petroleum industry.



1 Accurate, fast and user-friendly? Yes, of course!

The solution for accurate, fast, user-friendly and affordable temperature meters has a name: MKT 50 Millikelvin Thermometer (**Figure 1**). Today, numerous refineries have already made the decision to go with Anton Paar's MKT 50 due to its accuracy combined with its outstanding price/performance ratio.



Figure 1: The MKT 50 Millikelvin Thermometer

Depending on the temperature sensor, varying temperature ranges are covered, e.g. from $-100\text{ }^{\circ}\text{C}$ to $450\text{ }^{\circ}\text{C}$. MKT 50 also complies with the requirements as specified in DIN EN 60751.

The field of application is wider than that. In addition to taking temperature measurements, MKT 50 also proves indispensable in a petrochemical sample laboratory for

- the calibration of DMATM M density meters,
- the calibration of SVMTM viscometers,
- the calibration of water baths, and
- the calibration of all temperature sensors used in the respective plant.

2 Where the MKT 50 Millikelvin Thermometer comes in handy

The petrochemical industry and official calibration laboratories represent the biggest group of MKT 50 users. Also other manufacturing industries such as the metal, non-metal, electronic and chemical industry value MKT 50's performance and have joined the community of MKT 50 users.

MKT 50 is the favorite among temperature meters for multiple reasons:

- **Reliable:** High-end accuracy for many years.
- **Affordable:** Unbeatable price/performance ratio.
- **Portable:** One instrument accommodates several measuring locations.

3 More than just temperature

MKT 50 offers two options in one housing: a thermometer and a reference resistance meter in the range of 0 Ohm – 400 Ohm.

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