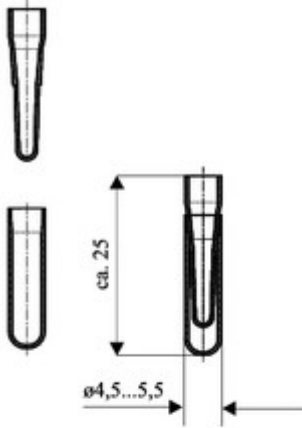


Components and accessories

Miniature fixed-point cell

Miniature fixed point cell MFPZ



Application areas

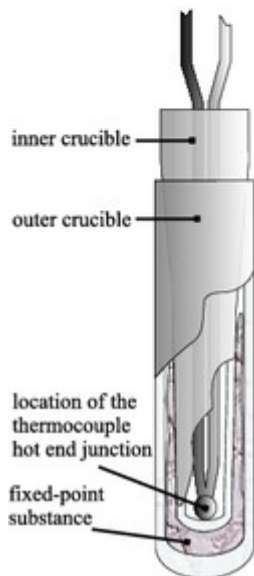
- in-situ-calibration of thermocouples or thermocouple measuring systems by means of temperature fixed points ("selfcalibrating thermocouple")
- changeable insert for precision thermocouples (-> type SKTE) or integrated part of industrial thermocouples
- recognition and correction of emf-drifts in restricted access areas
- improved measurement accuracy, reduced expenses for the preventive replacement of sensors, longer calibration periods in quality management systems

Technical specification:

Twin-wall ceramic crucible approx. $\varnothing$ outside 5 x $\varnothing$ inside 2x25 mm

Crucible material: AlN, Al₂O₃, Si₃N₄ or Y₂O₃ (depending on used fixed-point substance)

Ingot material: high purity metal or alloy with phase change transition point within the desired temperature range, purity 99,99% or better



Fixed point material

Sn 231,93°C

Pb 327,46°C

Zn 419,53°C

Al₆₇Cu₃₃ 548,2°C

Al₈₃/In₁₇ 638,4°C

Al 660,32°C

Ag₂₈Cu₇₂ 779,6°C

Au 1064,18°C

Pd 1553,4°C

further fixed-point materials on request