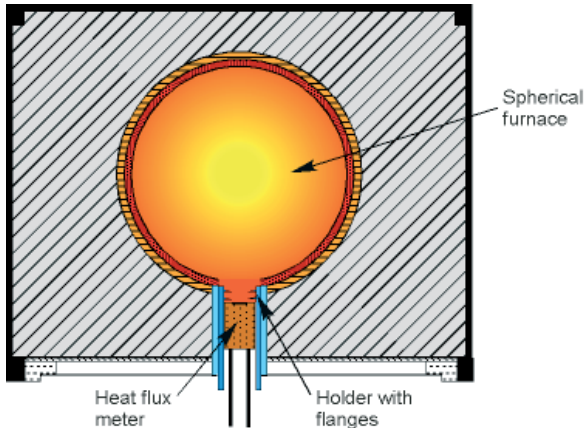


Calibration of heat flux meters

SP offers calibration of heat flux meters according to two new international standards (ISO 14934, Part 2 and 3). These standards describe the procedures for primary and secondary calibration of heat flux meters for fire testing purposes. The calibration result is given as the heat flux received by a cooled surface as a function of the output voltage of the meter.



The SP calibration furnace with a heat flux meter fitted in the holder.

The calibration procedures used

ISO 14934-2, Fire tests — Calibration and use of heat flux meters, Part 2: Primary calibration methods.

The calibration is performed at ten heat flux levels, 2-75 kW/m². Primary calibration is recommended for all your in-house reference meters. This calibration is accredited.

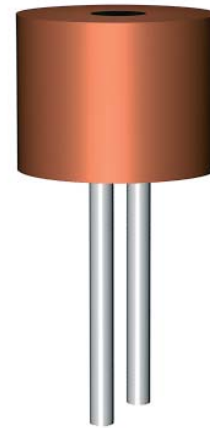
ISO 14934-3, Fire tests — Calibration and use of heat flux meters, Part 3: Secondary calibration methods.

At SP the calibration is performed in the same spherical furnace as described in Part 2. The calibration is performed at two heat flux levels. It is recommended for your daily use heat flux meters.

Types and design of heat flux meters that can be calibrated

- Total heat flux meters of Schmidt-Boelter or Gardon type
- Smooth or threaded body
- With or without flanges
- Field of view hemispherical (solid angle 180°)
- Housing diameter up to 50 mm
- Sensing surface diameter up to 10 mm
- Cooling water piping routed parallel to the axis of the meter according to the figure beneath.

For other meters special alternatives may be possible.



A typical heat flux meter with its cooling water piping.

For more information please contact

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