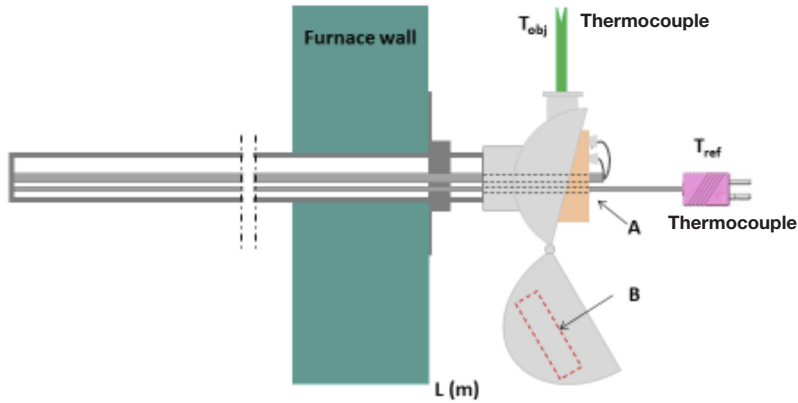


# CUSTOMISED SENSOR WITH IN-SITU TUBE MAKES CALIBRATION EASIER

## In-situ calibration – practical installation



*The reference sensor is inserted inside the extra tube that is inside the existing terminal block, see A.*

**To make life easier for customers who require continuous repeat calibrations, Pentronic manufactures thermocouples and Pt100s with an in-situ tube.**

The main benefit of having a tube installed especially for the reference sensor is the time saved, because the process sensor does not have to be removed to be calibrated. Another benefit is that the calibration can be performed without using a calibration furnace, as long as the required production temperature can be maintained.

It is worth noting that with this system, the limited space inside the installed in-situ tube often makes it necessary to use a thin reference sensor during the calibration process. This can affect the reference sensor's accuracy and lifespan.

The design of sensors with an in-situ tube can vary and depends on several factors, such as the sensor model involved, the process temperature, the type of furnace etc. The final design of an appropriate sensor is therefore often the result of a discussion with Pentronic's sales team, who are very willing to answer questions and make suitable suggestions.