

Application Note

ISOTowers

• 660.323°C (Aluminium)

■ 419.527°C (Zinc)

■ 231.928°C (Tin)

■ 156.5985°C (Indium)

What is Fixed Point Calibration?

For the very lowest uncertainties resistance thermometers are calibrated in ITS-90 Fixed Point Cells.

Primary ITS-90 Fixed Point Systems are suited to long stem SPRTs and are just too large for shorter thermometers.



Primary Systems only suit Long Stem SPRTs

Primary SPRTs usually have a minimum length of around 480 mm, longer for high temperature thermometers. Most standard thermometers used in secondary and industrial laboratories are too short to be calibrated in conventional ITS-90 Fixed Point Cells.

Primary ITS-90 Fixed Point Systems are often prohibitively expensive for many users.

Isotech has the ISOTowers

These ISOTowers bring the benefits of fixed point calibration to a wider range of probes.

The fixed point cell is combined with a heatpipe and a separate immersion compensator giving better performance and lower uncertainties than earlier small sized or miniature cells.

METROSERT have purchased ISOTowers to benefit from low uncertainties coming from fixed point calibration and the ability to calibrate both long stem SPRTs and shorter thermometers.

