3D MAGNETIC SENSOR CALIBRATOR

Innovative device for calibrating magnetic field with high resolution.

This calibration sensor device measures all three axes of the magnetic field by performing a scan over the full unit sphere, independent of its orientation relative to the magnetic field. The calibration device rotates continuously around two orthogonal axes and the full range of polar and azimuthal angles is covered by a respective rotation. The parts of the device to be rotated are made very compact to fit in between pole pieces of a magnet.

FEATURES

The technology allows automated and accurate calibration of many Hall sensors in a short time which is impossible to obtain with existing commercial devices.

APPLICATIONS

- Magnet field calibration in 3D using Hall sensors.
- Whenever precise magnetic field calibration is needed between 0 and 13 Tesla.

ADVANTAGES

- Up to three sensors may be calibrated in one session.
- High resolution magnetic calibration of Hall sensors in three dimensions.

AREA OF EXPERTISE

- Detectors & Instrumentation

IP STATUS


CONTACT PERSON

tiago.araujo@cern.ch

Find out more at:
kt.cern