The TNS01 Thermal Needle Set allows performing fast measurements of the thermal resistivity or conductivity of soils with optimal flexibility. The measurement complies with IEEE Standard 442-1981 as well as with ASTM D 5334-92 Standard. The system includes two different needles for use in the laboratory as well as on site. It is suggested to also consult the brochures of components FTN and MTN, as well as TPSYS, which is more accurate but has less robust needles.

Table 1 TNS01 essentially consists of a combination of FTN and MTN components: the insertion tool IT02 and needle TP07 of MTN are added to FTN.

**NEW!**
For high accuracy calibration CRC Calibration Reference Cylinders are available.
For insertion into hard soils GT Series Guiding tubes can be applied for needle type TP07.

![Diagram](image-url)