



Traceability measurements of SDT200/270 – Authorization to calibrate

SDT International nv sa, 415 Boulevard de l’Humanité 1190 Brussels, Belgium **declares**, under its own responsibility that the measurements made by the SDT200/SDT270 are traceable to international standards. Calibration of the SDT200/SDT270 is done by a measurement chain that is described below:

1) Acoustical calibration

Acoustical calibration of SDT Sensors is made at SDT International

- by using a Brüel & Kjaer (B&K) precision microphone
- This microphone is calibrated annually by B&K, that is ISO-17025 certified

2) Electrical calibration

Electrical calibration of the SDT200/270 is fully automated,

and can be done only under control of program written by SDT and running on a Personal Computer:

- The Human Operator connects physically the cables, and start the PC programs.
The rest is 100% under computer control : the program
 - connects to the SINUTEST (a precision sinusoidal voltage generator – see below), check its calibration date, and programs its output voltage and frequency
 - connects to the SDT200/270 under calibration, read back its measurements, and adjust its internal electronic potentiometers in order to perform the calibration
 - creates the Calibration report (the Operator doesn’t edit it: human mistakes are avoided)
 - connects to the SDT devices calibration database available on Internet and updates it.
- All SINUSTESTS are calibrated annually with reference to two high precision Keithley Digital Multimeters
- These Digital Multimeters are calibrated annually by Keithley Germany that is ISO-17025 certified

3) Who is authorized to calibrate SDT200 and SDT270 :

Today (May 2015) calibration of SDT200/270 is authorized for the following companies:

- **For SDT200/SDT270 : SDT Dealers equipped with a SINUTEST + the SDT program, or SDT International.**
- **For SINUTESTS and SDT acoustics sensors : SDT International**

May 08th, 2015 D. GELBGRAS, Q.A. Manager

A. DEGRAEVE, Managing Director

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Ver.	Author	Nature of modification	Verified