



# Certificate of Calibration- Si7051

Oct 4, 2016

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This certificate applies to the following device as furnished by Silicon Labs.

Si7051

In order to confirm the datasheet specifications (including the specifications below) are met, each sensor is calibrated under controlled temperature and relative humidity conditions.

Operating Range : -40°C to +125°C

Accuracy :

±0.1°C : +38.5°C to +41°C

±0.13°C : +20°C to +70°C

±0.25°C : -40°C to +125°C

Repeatability/Noise (at 14 bit resolution): 0.01°C typical (RMS)

Response Time (On Si705x-EB board): 5.1 seconds (typical)<sup>1</sup>

Long Term Stability: <0.01 °C/Year (typical)

<sup>1</sup> Time to reach 63% of final value in response to a steep change in temperature. Actual response time will vary dependent on system thermal mass and air-flow

This calibration is completed using equipment calibrated on a regular basis by a laboratory certified to operate in accordance with ISO/IEC 17025, is a member of the International Laboratory Accreditation Cooperation (ILAC) and is a signatory of the ILAC Mutual Recognition Arrangement (MRA).

The temperature and humidity standards (transfer standards) used for calibration are traceable via these accredited laboratories to standards set by the National Institute of Standards and Technology (NIST).

Each device has undergone functional testing following calibration.

A handwritten signature in black ink that reads 'Harold Melton'. The signature is written in a cursive style and is positioned above a horizontal line.

Harold Melton

Director of Quality Engineering

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