

## **Datasheet Evaluation Kit EK-H5**

# For SHT2x and SHT7x Humidity and Temperature Sensors

- Very simple Evaluation Kit
- Applicable to SHT2x and SHT7x series
- Viewer Software for download
- USB Interface

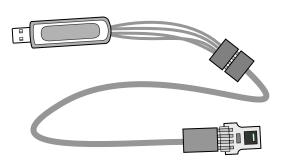
#### **Product Summary**

The evaluation kit EK-H5 is made for running Sensirion's humidity and temperature sensors and display measured values. It is held very simple: A USB dongle with USB to I<sup>2</sup>C translator capabilities connects with a sensor cable and sensor. With viewer software it is able to communicate with SHT1x, SHT7x as well as the new generation SHT2x and display measured values.

The viewer software can be downloaded from the Sensirion web page and owns some simple data-logger features.

The main purpose of the evaluation kit is demonstrating the unique performance of Sensirion's humidity and temperature sensors without any own hard or software design work.

## Set Up of EK-H5



**Figure 1** Schematic of Evaluation Kit EK-H5. USB Dongle with I2C to USB converter. Sensor cable is connected via plug to this USB dongle. Either SHT7x or SHT21 on PCB may be plugged to the cable. Viewer software must be downloaded from the Sensirion web page.

Pin assignment of SHT21 on PCB top view from left to right: SCL, VDD, VSS, SDA (same as SHT7x).

#### **Material Contents**

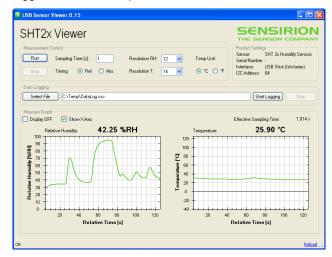
- 1 EK-H5 USB Stick: Contains USB to I<sup>2</sup>C translator capabilities.
- 1 Sensor cable of 1m length with plug for connecting sensors with USB dongle.
- 1 SHT21 sensor: SMD type, DFN 3-0 packaged sensors with version 4C sensor chip mounted to small PCB with connector. Please refer to datasheet SHT21 for more details.

## **Device Certification**

The Evaluation Kit EK-H5 is RoHS and WEEE compliant.

#### Viewer Software

The viewer software displays relative humidity and temperature data on two different windows. It allows for addressing all available resolutions, absolute or relative timing, free choice of measurement intervals (1 ... 1440s), and choice for displaying °C or °F. The data may be logged, stored and exported to Excel format.



Viewer Software must be downloaded from the Sensirion web page. Please find it on <a href="www.sensirion.com/ek-h5">www.sensirion.com/ek-h5</a>. Please note that the USB stick, sensor cable and sensor must be connected to the computer before starting the software. No further software driver or any other hardware is required for running EK-H5.

When starting the viewer software, the right sensor must be selected in a first window (more sensors are given for choice). The settings must be chosen and then the measurement may be started.



## **Revision History**

Date	Version	Page(s)	Changes
January 2010	1.0	1 – 2	Initial release
August 2012	2.0	1	Changed hyperlink

## **Important Notices**

#### Warning, Personal Injury

Do not use this product as safety or emergency stop devices or in any other application where failure of the product could result in personal injury. Do not use this product for applications other than its intended and authorized use. Before installing, handling, using or servicing this product, please consult the data sheet and application notes. Failure to comply with these instructions could result in death or serious injury.

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#### **ESD Precautions**

The inherent design of this component causes it to be sensitive to electrostatic discharge (ESD). To prevent ESD-induced damage and/or degradation, take customary and statutory ESD precautions when handling this product.

See application note "ESD, Latchup and EMC" for more information.

#### Warranty

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# **Headquarter and Sales Offices**

Headquarter

Sales Office USA:

 SENSIRION Inc.
 Phone: +1 805 409 4900

 2801 Townsgate Rd., Suite 204
 Fax: +1 805 435 0467

 Westlake Village, CA 91361
 michael.karst@sensirion.com/http://www.sensirion.com/

Sales Office Japan:

SENSIRION JAPAN Co. Ltd.

Phone: +81 3 3444 4940

Postal Code: 108-0074

Shinagawa Station Bldg. 7F,
4-23-5, Takanawa, Minato-ku

Tokyo, Japan

Phone: +81 3 3444 4940

Fax: +81 3 3444 4939

info@sensirion.co.jp

http://www.sensirion.co.jp

Sales Office Korea:

SENSIRION KOREA Co. Ltd. Phone: +82 31 440 9925~27

#1414, Anyang Construction Tower B/D, 1112-1, Bisan-dong, Anyang-city Gyeonggi-Province http://dx.

South Korea

Sales Office China:

Sensirion China Co. Ltd. Room 2411, Main Tower Jin Zhong Huan Business Building, Futian District, Shenzhen, Postal Code 518048

PR China

/D, Fax: +82 31 440 9927 info@sensirion.co.kr http://www.sensirion.co.kr

phone: +86 755 8252 1501 fax: +86 755 8252 1580 info@sensirion.com.cn www.sensirion.com.cn

Find your local representative at: http://www.sensirion.com/reps

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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## Офис по работе с юридическими лицами:

105318, г. Москва, ул. Щербаковская д. 3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru moschip.ru\_6 moschip.ru\_4 moschip.ru\_9