



USER MANUAL

EVALUATION BOARD FOR HUMIDITY SENSOR HIDS

2525020210092

VERSION 1.1

OCTOBER 16, 2024

WURTH ELEKTRONIK MORE THAN YOU EXPECT



Revision history

Manual version	Product version	Notes	Date
1.0	1.0	Initial release of the manual	September 2023
1.1	1.0	 Updated chapter Important notes Updated chapter Legal notice 	October 2024



Abbreviations

Abbreviation	Description
I ² C	Inter Integrated Circuit
LSB	Least Significant Bit
MEMS	Micro Electro Mechanical System
SMD	Surface Mount Device

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1 General description

1.1 Introduction

The EV-Board of the humidity sensor provides the opportunity to verify the sensor performance and develop a prototype using an external processor, e.g. sensor shield for Arduino (Part No. 2501000101291). It can be directly plugged into a sensor shield for Arduino using the mounted I²C pins. The EV-Board can also be mounted on a bread board using through-hole pin header connections. The humidity sensor (Part No: 2525020210002) is a 16-bit digital ultra-low-power module with an integrated temperature sensor.



Figure 1: EV-Board of the humidity sensor

1.2 Pin header compatibility

6-pin right angle headers mounted on this EV-Board can be directly plugged into the sensor shield for Arduino. This provides a plug-and-play solution to quickly take the EV-Board into operation.



Sensor shield for Arduino is a stackable extension board for Arduino UNO and DUE to connect the sensor EV-Boards. More information can be found on our website *here*.



2 Functional description

The humidity sensor EV-Board supports I²C communication interfaces.

• A positive supply voltage is applied to the sensor through the *VDD* pin and negative supply voltage through the *GND* pin.

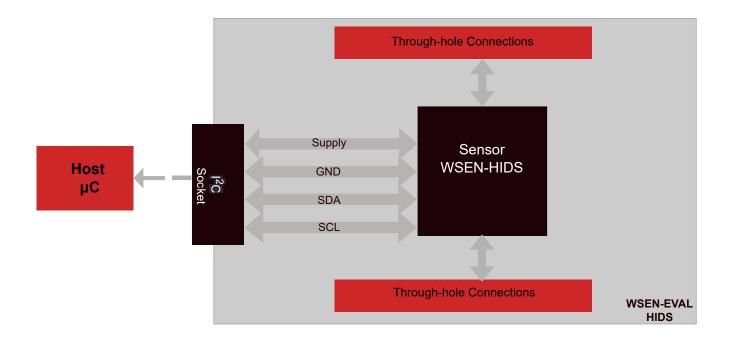


Figure 2: Block diagram



The 7-bit slave address of the humidity sensor is 1000100b (0x44)



Please refer to the datasheet and the user manual of the humidity sensor (Part No: 252502021002) for information about the electrical properties.



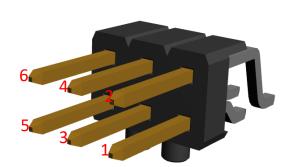
2.1 EV-Board in operation

2.1.1 I²C connection (CON1)

The pinning of connector CON1 provides an I²C communication interface which fits directly into the sensor shield for Arduino in section 1.2.



Figure 3: Pin header connection to the external boards



Pin No	I ² C Pins (CON1)
1	GND
2	SCL
3	SDA
4	NC
5	NC
6	VDD

Table 1: Pin header to external boards



Please ensure to set pull-up resistors on the SDA and SCL bus lines on the master side.



2.1.2 Through-hole connection

The through-hole pin header connection gives direct access to each sensor pin. To use I²C via these through-hole connections, the SDA and SCL pins must be connected to VDD via pull-up resistors. Please refer to Table 2 for the pin description of the EV-Board.



Figure 4: Through-hole connection

Pin No.	EV-Board pins	Description	Input/Output
1	GND	Negative supply voltage	Supply
2	SCL	I ² C serial clock	Input
3	VDD	Positive supply voltage	Supply
4	SDA	I ² C serial data	Input/Output

Table 2: Pin description



3 EV-Board

3.1 Schematic diagram

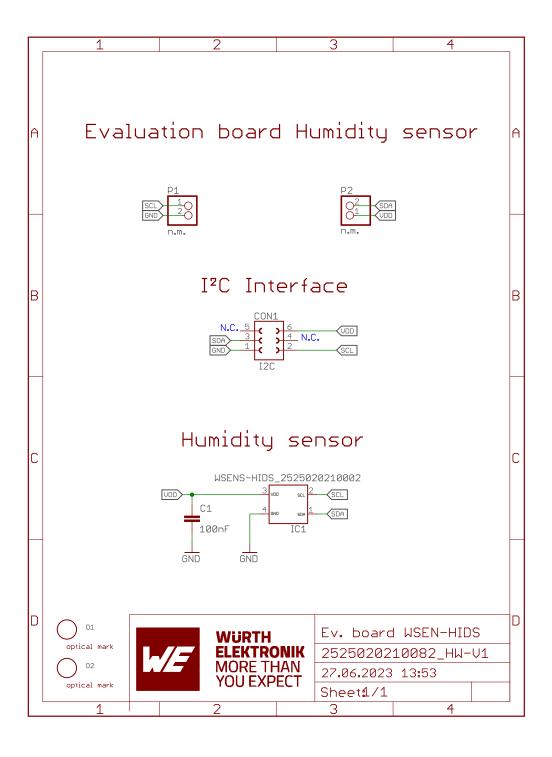


Figure 5: Schematic diagram



3.2 Layout

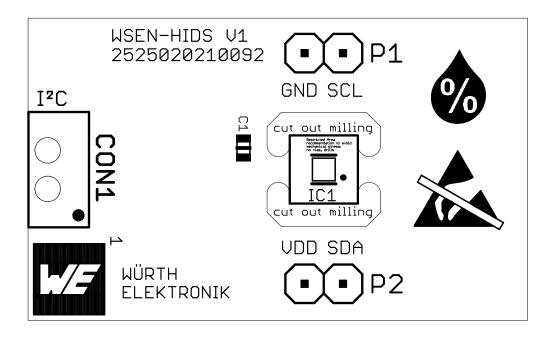


Figure 6: Assembly diagram

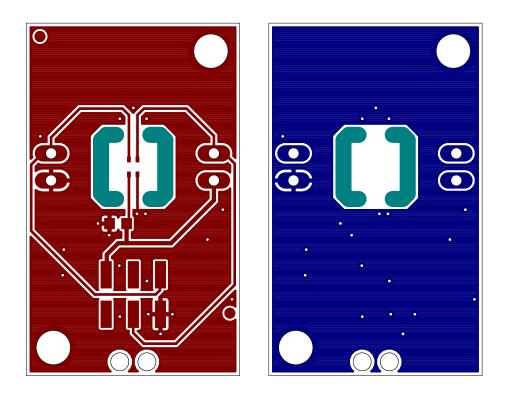


Figure 7: Top layer (left), bottom layer (right)



3.3 Bill of materials

Part	Value	Pack	Manufacturer	NR
C1	100nF	0603	Würth Elektronik eiSos	885012206095
CON1	2x3	SMT	Würth Elektronik eiSos	610106249121
IC1	WSENS-HIDS	SMT	Würth Elektronik eiSos	2525020210002
P1	n.m.	THT	n.m.	n.m.
P2	n.m.	THT	n.m.	n.m.

Table 3: Bill of materials



You can order the parts P1 and P2 from our website and the order code is 61300211121

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- The EVB should never be left unattended during operation.
- Capacitors must be completely discharged. The capacitors must be actively discharged using a suitable resistor.

Protection against static electricity

Use the unpackaged product only in ESD protected areas. Wear the ESD personal protective equipment prescribed for these areas. Ground all conductive components, including personnel, as prescribed in ESD protected areas. Ensure that the product is only used by trained personnel.

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The EVB is not a finished product and is not intended for general use by the consumer. The EVB is intended exclusively for use in the evaluation of WE components in the lab or in development environments by highly qualified technicians or engineers, familiar with the risks involved in handling electrical or mechanical components, systems and subsystems. The use of the EVB is your full and independent responsibility. The EVB is expressly not intended to be installed in a terminal device or to be part of a terminal device in whole or in part. WE reserves the right, at its own discretion, to make corrections, improvements, adjustments or other changes to the EVB or to discontinue the EVB. The EVB is not intended for use in devices and applications for which a higher safety and reliability standard is prescribed. It is also not approved for use in safety-relevant applications or where personal injury or fatal consequences must be expected in the event of failure.

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The EVB may only be operated within the specifications and environmental parameters recommended by WE, as described in the instructions for use. Exceeding the specified parameters (including, but not limited to, input and output voltage, current, power, and ambient conditions) may result in damage to property. If you have questions about these electrical parameters, please contact WE at (regulatory-compliance@weonline.com) prior to connecting peripheral electronics (including the input voltage and intended loads). Any load outside a certain power range may lead to negative consequences, including, but not limited to, unintended or inaccurate evaluations or possibly permanent damage to the EVB or the electronics connected to it. Please ensure that the appropriate safety precautions are taken when working with the EVB, as serious injuries, including severe or even fatal injuries from electric shock or electric burns, may occur if you do not follow the appropriate safety precautions. Under no circumstances should the EVB be touched while live. When the EVB is connected to a power source, some of tis components are electrically charged and/or have temperatures above 50 °C. This condition also applies for a short time after disconnecting from the supply voltage until the capacitors are completely discharged and hot components have cooled down. These components include connectors, linear regulators, switching transistors, heat sinks, resistors, diodes, inductors and other components, which can be identified from the documentation in the instructions for use. As with all electronic lab work, only qualified persons with knowledge of electronic performance evaluation, measurement and diagnostic tools, should use the EVB.

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