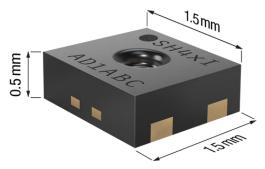


SHT4xI-Digital

4th Generation, High-Accuracy, 16-bit, Industrial-Grade, Relative **Humidity and Temperature Sensor**



Features

- Relative humidity accuracy: up to ±2 %RH
- Temperature accuracy: up to ±0.2 °C
- Supply voltage: 2.3 V ... 5.5 V
- Average current: 21 µA (at meas. rate 1 Hz)
- I2C fast mode plus, CRC checksum
- Operating range: 0...100 %RH, -40...125 °C Patented protection options
- Fully functional in condensing environment
- Variable power heater
- NIST traceability
- Mature technology from global market leader
- JEDEC JESD47 qualification, high ESD protec.

General Description

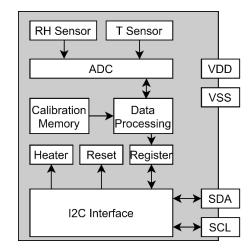
SHT4xI-Digital is an industrial-grade digital sensor platform for measuring relative humidity and temperature with different accuracy classes. It meets demanding ESD and robustness requirements of industrial applications. The sensors can be interfaced via several preconfigured I2C addresses. An integrated heater allows for advanced on-board-diagnostics while the sensor element is designed for harsh conditions such as condensing environments. The four-pin dualflat-no-leads package is suitable for surface mount technology (SMT) processing. Patented protection options such as ePTFE membranes and polyimide foils can be pre-ordered.

Device Overview

Products	Details
SHT40I-AD1B	base RH&T accur., 0x44 I2C addr.
SHT41I-AD1B	improved RH&T accur. 0x44 I2C addr.

Full product list on page 14

Functional Block Diagram





Contents

Features	1
General Description	1
Device Overview	1
Functional Block Diagram	1
1 Quick Start – Hello World	3
2 Humidity and Temperature Sensor Specifications	4
2.1 Relative Humidity	4
2.2 Temperature	5
2.3 Recommended Operating Conditions	5
3 Electrical Specifications	6
3.1 Electrical Characteristics	6
3.2 Timings	7
3.3 Absolute Maximum Ratings	7
4 Sensor Operation	7
4.1 I2C communication	7
4.2 I2C Communication Timing	8
4.3 Data type & length	8
4.4 Checksum Calculation	8
4.5 Command Overview	9
4.6 Conversion of Signal Output	9
4.7 Serial number	10
4.8 Reset	10
4.9 Heater Operation	10
5 Physical Specification	10
5.1 Package Description	11
5.2 Package Outline	
5.3 Land Pattern	
5.4 Pin Assignment & Laser Marking	
5.5 Thermal Information	13
6 Quality and Material Contents	13
7 Tape and Reel Packaging	
8 Product Name Nomenclature	14
9 Ordering Information	
10 Bibliography	14
11 Revision History	14



1 Quick Start - Hello World

A typical application circuit for SHT4xl-Digital is shown on the left-hand side of **Figure 1**. After reaching the minimal supply voltage and allowing for the maximal power-up time of 1 ms the sensor is ready for I2C communication. The quickest way to measure humidity and temperature is pseudocoded on the right-hand side of **Figure 1**. Together with the conversion formulae given in equations (1), (2), and (3), the digital signals can be translated into relative humidity and temperature readings.

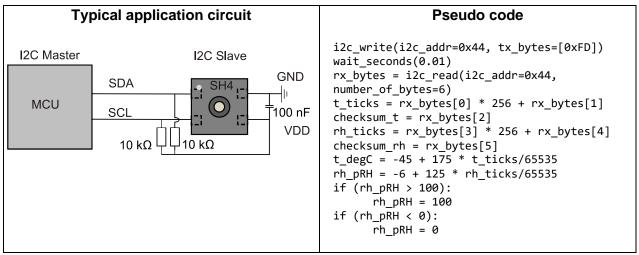


Figure 1: Typical application circuit (left) and pseudo code (right) for easy starting. For details on the signal cropping in the last four lines see **section 4.6**.

Find code resources and embedded drivers on: https://github.com/Sensirion/embedded-sht/releases



CAD files can be downloaded from SnapEDA:





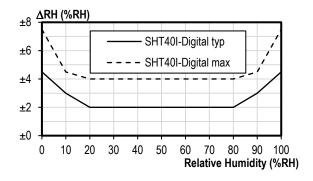
2 Humidity and Temperature Sensor Specifications

Every SHT4xI-Digital is individually tested and calibrated and is identifiable by its unique serial number (see section 4.7 for details on the serial number). For the calibration, Sensirion uses transfer standards, which are subject to a scheduled calibration procedure. The calibration of the reference, used for the calibration of the transfer standards, is NIST traceable through an ISO/IEC 17025 accredited laboratory.

2.1 Relative Humidity

Parameter	Conditions	Value	Units
SHT40I-Digital <i>RH</i> accuracy ¹	typ.	±2	%RH
Sitt 401-Digital Art accuracy	max.	see Figure 2	-
SHT41I-Digital <i>RH</i> accuracy ¹	typ.	±2	%RH
Si 11411-Digital Art accuracy	max.	see Figure 3	-
	high	0.08	%RH
Repeatability ²	medium	0.15	%RH
	low	0.21	%RH
Resolution ³	-	0.01	%RH
Hysteresis	At 25°C	±0.8	%RH
Specified range ⁴	extended ⁵	0 to 100	%RH
Response time ⁶	<i>t</i> 63%	4	S
Long-term drift ⁷	typ.	<0.25	%RH/y

Table 1: General relative humidity sensor specifications.



±8 SHT41I-Digital typ ±6 - - SHT41I-Digital max ±4 ±2 ±0 0 10 20 30 40 50 70 80 90 60 Relative Humidity (%RH)

Figure 2: SHT40I-Digital typical and maximal relative humidity accuracy at 25 °C.

Figure 3: SHT41I-Digital typical and maximal relative humidity accuracy at 25 °C.

¹ For definition of typ. and max. accuracy, please refer to the document "Sensirion Humidity Sensor Specification Statement".

² The stated repeatability is 3 times the standard deviation (3σ) of multiple consecutive measurement values at constant conditions and is a measure for the noise on the physical sensor output. Different repeatability commands are listed in Table 7.

³ Resolution of A/D converter.

⁴ Specified range refers to the range for which the humidity or temperature sensor specification is guaranteed.

⁵ For details about recommended humidity and temperature operating range, please refer to section 2.3.

⁶ Time for achieving 63% of a humidity step function, measured at 25°C and 1 m/s airflow. Humidity response time in the application depends on the design-in of the sensor

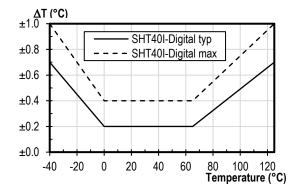
⁷ Typical value for operation in normal RH/T operating range. Max. value is < 0.5 %RH/y. Value may be higher in environments with vaporized solvents, out-gassing tapes, adhesives, packaging materials, etc. For more details, please refer to (Sensirion, *Handling Instructions for Humidity Sensors*, 2020).



2.2 Temperature

Parameter	Conditions	Value	Units
SHT40I-Digital <i>T</i> Accuracy ¹	typ.	±0.2	°C
SH 1401-Digital 1 Accuracy	max.	see Figure 4	-
SHT411 Digital T Accuracy	typ.	±0.2	°C
SHT41I-Digital <i>T</i> Accuracy ¹	max.	see Figure 5	-
	high	0.04	°C
Repeatability ²	medium	0.07	°C
	low	0.1	°C
Resolution ³	-	0.01	°C
Specified range ⁴	-	-40 to +125	°C
Response time ⁸	t 63%	2	S
Long-term drift ⁹	typ.	<0.03	°C/y

Table 2: General temperature sensor specifications.



ΔT (°C) SHT41I-Digital tvp ±0.8 SHT41I-Digital max ±0.6 ±0.4 ±0.2 ±0.0 -40 -20 0 20 40 60 80 100 120 Temperature (°C)

Figure 4: SHT40I-Digital typical and maximal temperature accuracy.

Figure 5: SHT41I-Digital typical and maximal temperature accuracy.

2.3 Recommended Operating Conditions

The sensor shows best performance when operated within the recommended normal temperature and humidity range of 5 °C ... 60 °C and 20 %RH ... 80 %RH, respectively. Long term exposure to conditions outside recommended normal range, especially at high relative humidity, may temporarily offset the RH signal (e.g. +3 %RH after 60 h at > 80 %RH). After returning into the recommended temperature and humidity range the sensor will recover to within specifications by itself. Prolonged exposure to extreme conditions may accelerate ageing.

To ensure stable operation of the humidity sensor, the conditions described in the document (Sensirion, *Handling Instructions for Humidity Sensors*, 2020) regarding exposure to volatile organic compounds have to be met. Please note as well that this does apply not only to transportation and manufacturing, but also to operation of the SHT4xI-Digital.

⁸ Temperature response time depends on heat conductivity of sensor substrate and design-in of sensor in application.

⁹ Max. value is < 0.04°C/y.



3 Electrical Specifications

Valid for all electrical specifications: Typical values correspond to $V_{\rm DD}$ = 3.3 V and T = 25 °C. Min. and max. values are valid in the full temperature range -40 °C ... 125 °C, at declared $V_{\rm DD}$ levels and are based on characterization.

3.1 Electrical Characteristics

Parameter	Sym bol	Conditions	Min	Тур.	Max	Unit s	Comments
Supply voltage	V_{DD}		2.3	3.3	5.5	V	-
Power-up/down level	V POR	Static power supply	0.7	-	2.3	٧	-
		Idle state	-	18	-	μΑ	-
Supply current (no heater)	I DD	Measurement	-	350	-	μΑ	Average current consumption while sensor is measuring
(no noator)		Aver., high repeatab.	-	21	-		Aver. current
		Aver., med repeatab. Aver., low repeatab.	-	19 18	-	μΑ	consumpt. (contin. operation at 1Hz)
Low level input voltage	VIL	-	0	-	0.3* <i>V</i> _{DD}	V	-
High level input voltage	ViH	-	0.7* V _{DD}	-	V _{DD}	٧	-
Pull up resistors	R _p	V _{DD} < 3.0V	820	-	-	Ω	
Pull up resistors	Дρ	<i>V</i> _{DD} ≥ 3.0V	390			12	-
Low level output	$V_{\rm DD} \ge 2.3 \rm V$	$V_{DD} \ge 2.3 \text{V}, R_p \ge 820 \Omega$		0.4	M		
voltage	Vol	$V_{\text{DD}} \ge 3.0 \text{V}, R_{\text{p}} \ge 390 \Omega$	-	-	0.4	V	-
		$R_p \ge 820 \ \Omega$: fast mode	-	-	400	pF	Capac. bus load can be determined from $C_{\rm b} < t_{\rm rise}$
Cap bus load	ap bus load C _b	$R_{\rm p} \ge 390~\Omega,$ $V_{\rm DD} \ge 3.0~\rm V: fast mode$ plus	-	-	340	pF	/(0.8473* R_p). Rise times are $t_{rise} = 300$ ns for fast mode and $t_{rise} = 120$ ns for fast mode plus

Table 3: Electrical specifications.



3.2 Timings

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	Comments
Power-up time	<i>t</i> eu	After hard reset, $V_{DD} \ge V_{POR}$	ı	0.3	1	ms	Time between V _{DD} reaching V _{POR} and sensor entering idle state
Soft reset time	<i>t</i> sr	After soft reset	-	-	1	ms	Time between ACK of soft reset command and sensor entering idle state. Also valid for I2C general call reset.
	<i>t</i> MEAS,I	Low repeatability	-	1.3	1.6	ms	The three repeatability modes differ with respect to measurement duration, noise level and
Measurement duration	t MEAS,m	Med. repeatability	-	3.7	4.5	ms	
	t MEAS,h	High repeatability	-	6.9	8.3	ms	energy consumption
Heater-on duration	.	Long pulse	0.81	1	1.19	S	After that time, the heater is automatically switched off
	t ⊣eater	Short pulse	0.08	0.1	0.12	S	After that time, the heater is automatically switched off

Table 4 System timing specifications.

3.3 Absolute Maximum Ratings

Stress levels beyond those listed in Table 5 may cause permanent damage or affect the reliability of the device. These are stress ratings only and functional operation of the device at these conditions is not guaranteed. Ratings are only tested each at a time.

Parameter	Rating
Supply voltage V _{DD}	-0.3 V 6.0 V
Max. voltage on any pin	V _{SS} - 0.3 V V _{DD} + 0.3 V
Operating temperature range	-40 °C 125 °C
Storage temperature range ¹⁰	-40 °C150 °C
ESD HBM	4 kV
ESD CDM	750 V
Latch up, JESD78 Class II, 125°C	+-100 mA

Table 5: Absolute maximum ratings.

4 Sensor Operation

4.1 I2C communication

I2C communication is based on NXP's I2C-bus specification and user manual UM10204, Rev.6, 4 April 2014. Supported I2C modes are standard, fast mode, and fast mode plus. Data is transferred in multiples of 16-bit words and 8-bit check sum (cyclic redundancy check = CRC). All transfers must begin with a start condition (S) and terminate with a stop condition (P). To finish a read transfer, send not acknowledge (NACK) and stop condition (P). Addressing a specific slave device

¹⁰ The recommended storage temperature range is 10-50°C. Please consult the document (Sensirion, Handling Instructions for Humidity Sensors, 2020) for more information.



is done by sending its 7-bit I2C address followed by an eighth bit, denoting the communication direction: "zero" indicates transmission to the slave, i.e. "write", a "one" indicates a "read" request. Schematics of the I2C transfer types are sketched in **Figure 6**. The sensor does not support clock-stretching. In case the sensor receives a read header and is still busy with e.g. measurement or heating, it will return a NACK. Measurement data can only be received once and will be deleted from the sensor's register after the first acknowledged I2C read header.

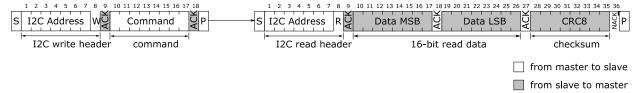


Figure 6: I2C transfer types: First a write header is sent to the I2C slave, followed by a command, for example "measure RH&T with highest precision". After the measurement is finished the read request directed to this I2C slave will be acknowledged and transmission of data will be started by the slave (here, only the temperature values are transmitted for reasons of simplicity).

4.2 I2C Communication Timing

All details on the timing are following the interface specification of NXP's user manual UM10204, Rev.6, 4 April 2014. Please follow mandatory capacitor and resistor requirements given in **Table 3**.

4.3 Data type & length

I2C bus operates with 8-bit data packages. Information from the sensor to the master has a checksum after every second 8-bit data package.

Humidity and temperature data will always be transmitted in the following way: The first value is the temperature signal (2 * 8-bit data + 8-bit CRC), the second is the humidity signal (2 * 8-bit data + 8-bit CRC).

4.4 Checksum Calculation

For read transfers each 16-bit data is followed by a checksum with the following properties

Property	Value
Name	CRC-8
Message Length	16-bit
Polynomial	$0x31(x^8 + x^5 + x^4 + 1)$
Initialization	0xFF
Reflect Input/Output	false/false
Final XOR	0x00
Examples	CRC(0xBEEF) = 0x92

Table 6 Data check sum properties.

The master may abort a read transfer after the 16-bit data if it does not require a checksum.



4.5 Command Overview

Command (hex)	Response length incl. CRC (bytes)	Description [return values]
0xFD	6	measure T & RH with high precision (high repeatability) [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0xF6	6	measure T & RH with medium precision (medium repeatability) [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0xE0	6	measure T & RH with lowest precision (low repeatability) [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0x89	6	read serial number [2 * 8-bit data; 8-bit CRC; 2 * 8-bit data; 8-bit CRC]
0x94	-	soft reset [ACK]
0x39	6	activate heater with 200mW for 1s, including a high precision measurement just before deactivation [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0x32	6	activate heater with 200mW for 0.1s including a high precision measurement just before deactivation [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0x2F	6	activate heater with 110mW for 1s including a high precision measurement just before deactivation [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0x24	6	activate heater with 110mW for 0.1s including a high precision measurement just before deactivation [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0x1E	6	activate heater with 20mW for 1s including a high precision measurement just before deactivation [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]
0x15	6	activate heater with 20mW for 0.1s including a high precision measurement just before deactivation [2 * 8-bit T-data; 8-bit CRC; 2 * 8-bit RH-data; 8-bit CRC]

Table 7 Overview of I2C commands. If the sensor is not ready to process a command, e.g. because it is still measuring, it will response with NACK to the I2C read header. Given heater power values are typical and valid for VDD=3.3V.

4.6 Conversion of Signal Output

The digital sensor signals correspond to following humidity and temperature values:

$$RH = \left(-6 + 125 \cdot \frac{S_{RH}}{2^{16} - 1}\right) \% RH \tag{1}$$

$$T = \left(-45 + 175 \cdot \frac{S_T}{2^{16} - 1}\right) \circ C \tag{2}$$

$$T = \left(-49 + 315 \cdot \frac{S_T}{2^{16} - 1}\right) \circ F \tag{3}$$

N.B.: The RH conversion formula (1) allows values to be reported which are outside of the range of 0 %RH ... 100 %RH. Relative humidity values which are smaller than 0 %RH and larger than 100 %RH are non-physical, however these "uncropped" values might be found beneficial in some cases (e.g. when the distribution of the sensors at the measurement boundaries are of interest). For all users who do not want to engage in evaluation of these non-physical values, cropping of the RH signal to the range of 0 %RH ... 100 %RH is advised.



4.7 Serial number

Every sensor has a unique serial number, that is assigned by Sensirion during production. It is stored in the one-time-programmable memory and cannot be manipulated after production. The serial number is accessible via I2C and is transmitted as two 16-bit words, each followed by an 8-bit CRC.

4.8 Reset

A reset of the sensor can be achieved in three ways:

- Soft reset: send the reset command described in Table 7.
- I2C general call: all devices on I2C bus are reset by sending the command 0x06 to the I2C address 0x00.
- Power down (incl. pulling SCL and SDA low)

4.9 Heater Operation

The sensor incorporates an integrated on-chip heater which can be switched on by the set of commands given in **Table 7**. There are three different heating powers and two different heating times accessible to the user. After reception of a heater-on command, the sensor executes the following procedure:

- 1. The heater is enabled, and the timer starts its count-down
- 2. On timer expiration a temperature and humidity measurement with the highest repeatability is started, the heater remains enabled
- 3. After the measurement is finished the heater is turned off
- 4. Temperature and humidity values are now available

The maximum on-time of the heater commands is 1 second to prevent overheating of the sensor by unintended usage of the heater. Thus, there is no dedicated command to turn off the heater. For extended heating periods it is required to send periodic heater-on commands, keeping in mind that the heater is designed for a maximal duty cycle of less than 10%. To obtain a fast increase in temperature the idle time between consecutive heating pulses shall be kept minimal.

Possible Heater Use Cases

There will be dedicated Sensirion application notes elaborating on various use cases of the heater. In general, the applications of the on-chip heater range around:

- 1. Removal of condensed / spray water on the sensor surface. Although condensed water is not a reliability / quality problem to the sensor, it will however make the sensor non-responsive to RH changes in the air as long as there is liquid water on the surface.
- 2. Creep-free operation in high humid environments. Periodic heating pulses allow for creep-free high-humidity measurements for extended times.

Important notes for operating the heater:

- 1. The heater is designed for a maximum duty cycle of 10%, meaning the total heater-on-time should not be longer than 10% of the sensor's lifetime.
- 2. During operation of the heater, sensor specifications are not valid.
- 3. The temperature sensor can additionally be affected by the thermally induced mechanical stress, offsetting the temperature reading from the actual temperature.
- 4. The sensor's temperature (base temperature + temperature increase from heater) must not exceed T_{max} = 125 °C to have proper electrical functionality of the chip.
- 5. The heater draws a large amount of current once enabled (up to ~50mA in the highest power setting). Although a dedicated circuitry draws this current smoothly, the power supply must be strong enough to avoid large voltage drops that could provoke a sensor reset.
- 6. If higher heating temperatures are desired, consecutive heating commands must be sent to the sensor. To keep times between consecutive heating pulses minimal, polling of the



sensor is advised. The heater shall only be operated in ambient temperatures below 65°C else it could drive the sensor outside of its maximal operating temperature.

5 Physical Specification

5.1 Package Description

SHT4xI-Digital is provided in an open-cavity dual flat no lead (DFN) package. The humidity sensor opening is centered on the top side of the package. The sensor chip is made of silicon, hosted on a copper lead frame and overmolded by an epoxy-based mold compound. Exposed bottom side of the leadframe with the metallic contacts is Ni/Pd/Au coated, side walls are bare copper. Moisture sensitivity level (MSL) of 1 according to IPC/JEDEC J-STD-020 is achieved. It is

recommended to process the sensors within one year after date of delivery.

5.2 Package Outline

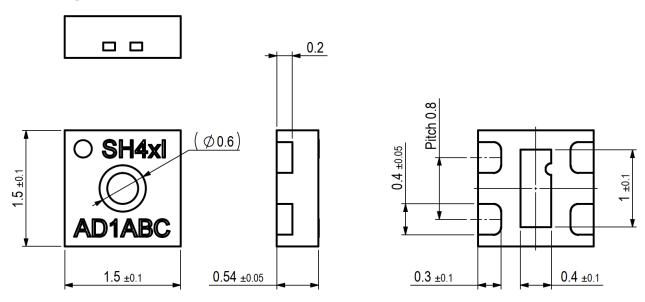


Figure 7 Dimensional drawing of SHT4xI-Digital including package tolerances (units mm).

5.3 Land Pattern

The land pattern is recommended to be designed according to the used PCB and soldering process together with the physical outer dimensions of the sensor. For reference, the land pattern used with Sensirion's PCBs and soldering processes is given in **Figure 8**.

Soldering of the central die pad is optional. Sensirion recommends to not solder the central die pad because the sensor can reach higher temperatures upon heater activation.



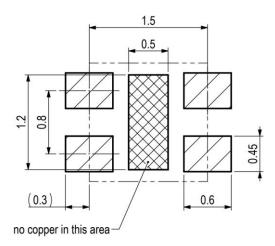


Figure 8: Recommended land pattern (in mm). Details can vary and depend on used PCBs and solder processes. There shall be no copper under the sensor other than at the pin pads.

5.4 Pin Assignment & Laser Marking

Pin	Name	Comments
1	SDA	Serial data, bidirectional
2	SCL	Serial clock, unidirectional input
3	VDD	Supply voltage
4	VSS	Ground



Figure 9 Pin assignment (transparent top view). Dashed lines are only visible if sensor is viewed from below. The die pad is not directly connected to any pin.

The laser marking consists of two lines, indicated in **Figure 9**. In the first line a filled circle serves as pin-1 indicator and is followed by "SH4". The fourth character will indicate the accuracy class of this product (here "x" serves as place holder). Last "l" indicates the industrial grade. In the second line, the first three characters specify the product characteristics according to positions 7, 8 and 9 of **Table 9**. The second three characters serve as internal batch tracking code.



5.5 Thermal Information

Symbol	Description	Heater off, die pad soldered (K/W)	Heater on, die pad soldered (K/W)	Heater off, die pad not soldered (K/W)	Heater on, die pad not soldered (K/W)
$R_{ heta JA}$	Junction-to-ambient thermal resistance	246	308	297	357
$R_{ heta JC}$	Junction-to-case thermal resistance	189	255	191	257
$R_{ heta JB}$	Junction-to-board thermal resistance	159	225	193	258
Ψ_{JB}	Junction-to-board characterization param.	159	223	191	254
Ψ_{JT}	Junction-to-top characterization param.	38	105	44	112

Table 8 Typical values for thermal metrics. In the "heater on" columns a heater power of 200 mW was assumed. Soldering of the die pad is not recommended, therefore the two right hand side columns are bold. Values are based on simulation.

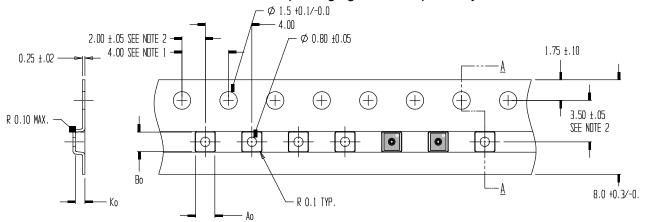
6 Quality and Material Contents

Qualification of SHT4xI-Digital is performed based on the JEDEC JESD47 qualification test method. Qualification pending. The device is fully RoHS and WEEE compliant, e.g. free of Pb, Cd, and Hg.

For general remarks of best practice in processing humidity sensor please refer to (Sensirion, *Handling Instructions for Humidity Sensors*, 2020).

7 Tape and Reel Packaging

All specifications for the tape and reel packaging can be found on **Figure 10**. Reel diameters are 13 inch and 8 inch for the 10k and the 2.5k packaging sizes, respectively.



NOTES:

- 1. 10 SPROCKET HOLE PITCH CUMULATIVE TOLERANCE ±0.2
- 2. POCKET POSITION RELATIVE TO SPROCKET HOLE MEASURED AS TRUE POSITION OF POCKET, NOT POCKET HOLE
- 3. AO AND BO ARE CALCULATED ON A PLANE AT A DISTANCE "R" ARRYF THE BRITTIM HE THE PRICKET.

Ao = 1.65 ±0.05 TOLERANCES - UNLESS Bo = 1.65 ±0.05 NOTED 1PL ±.2 2PL ±.10

Figure 10: Tape and reel specifications including sensor orientation in pocket (see indication of two sensors on the right side of the tape).

 $Ko = 0.81 \pm 0.05$



8 Product Name Nomenclature

position	value(s)	explanation
1	S	Sensirion
2	Н	Humidity Signal
3	Т	Temperature Signal
4	4	Fourth product generation
5	0 1	Base accuracy Improved accuracy
6	I	Industrial version
7	-	delimiter
8	A B	I2C interface with 0x44 address I2C interface with 0x45 address
9	D	DFN package
10	1	reserved
11	В	blank package without membrane
12	-	delimiter
13	R	Tape on reel packaging
14	2 3	Packaging article contains 2'500 pieces Packaging article contains 10'000 pieces

Table 9 SHT4xI-Digital product name nomenclature.

9 Ordering Information

Material Description	Material Number	Details	Quantity (pcs)
SHT40I-AD1B-R2	3.000.553	base RH&T accuracy, 0x44 I2C addr.	2'500
SHT40I-AD1B-R3	3.000.664	base RH&T accuracy, 0x44 I2C addr.	10'000
SHT41I-AD1B-R2	3.000.573	improved RH&T accuracy, 0x44 I2C addr.	2'500
SHT41I-AD1B-R3	3.000.665	improved RH&T accuracy, 0x44 I2C addr.	10'000

Table 10 SHT4xI-Digital ordering options.

10 Bibliography

Sensirion. (2020). Handling Instructions for Humidity Sensors. Retrieved from www.sensirion.com

11 Revision History

Date	Version	Page(s)	Changes
November 2021	1	All	Initial release