



ALLNET

ALL3018

Kombisensor aus Temperatur und Luftfeuchte für ALL3000 / 3418v2 / 3500 / 3500PoE / 3505 / 3692 / 4001 / 4076 / 4500 / 5000

- *Kombisensor aus Temperatur und Luftfeuchtigkeit*
- *Messbereich -40...+80°C*
- *Kalibrierung des Sensorelements nach Iso/IEC 17025*
- *1m Kabellänge*

Messen, steuern und regeln Sie automatisch und unabhängig

ALLNET verfolgt bereits seit Jahren das Konzept der intelligenten Steuerung von Abläufen in der Gebäudetechnik über Netzwerk und Internet. Intelligente Gebäudetechnik bietet nicht nur mehr Komfort, sondern fördert aktiv die Einsparung von Energiekosten.

Zentral gesteuert und über Netzwerk / Internet erreichbar ermöglichen die ALLNET Homeautomation Produkte intelligente Gebäudetechnik unabhängig von Zeit und Standort.

Der ALL3018 Kombisensor hat einen Messbereich von -40...+80 °C und 0...100 % RH

Art.-Nr. 27359



Kombisensor Temperatur/Luftfeuchte

- Messbereich -40 bis +80 °C (Auflösung 0,01 °C) / 0...100 % RH (Auflösung 0,5%)
- 1m Kabellänge

Sensor Performance

Relative Humidity

Parameter	Condition	min	typ	max	Units
Resolution ¹		0.4	0.05	0.05	%RH
		8	12	12	bit
Accuracy ² SHT71	typ		±3.0		%RH
	max	see Figure 2			
Accuracy ² SHT75	typ		±1.8		%RH
	max	see Figure 2			
Repeatability			±0.1		%RH
Hysteresis			±1		%RH
Nonlinearity	raw data		±3		%RH
	linearized		<<1		%RH
Response time ³	tau 63%		8		s
Operating Range		0		100	%RH
Long term drift ⁴	normal		< 0.5		%RH/yr

Temperature

Parameter	Condition	min	typ	max	Units
Resolution ¹		0.04	0.01	0.01	°C
		12	14	14	bit
Accuracy ² SHT71	typ		±0.4		°C
	max	see Figure 3			
Accuracy ² SHT75	typ		±0.3		°C
	max	see Figure 3			
Repeatability			±0.1		°C
Operating Range		-40		123.8	°C
		-40		254.9	°F
Response Time ⁶	tau 63%	5		30	s
Long term drift			< 0.04		°C/yr

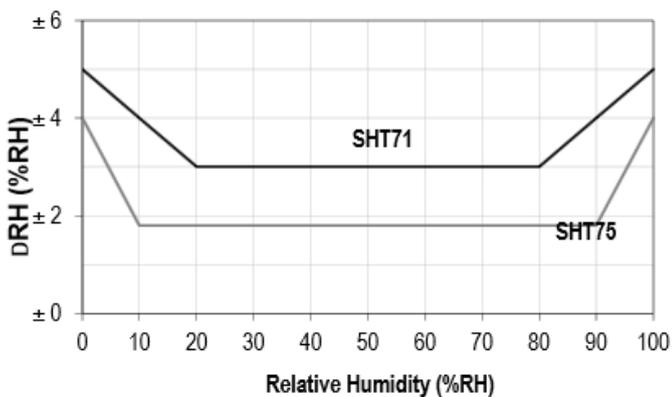


Figure 2: Maximal RH-tolerance at 25°C per sensor type.

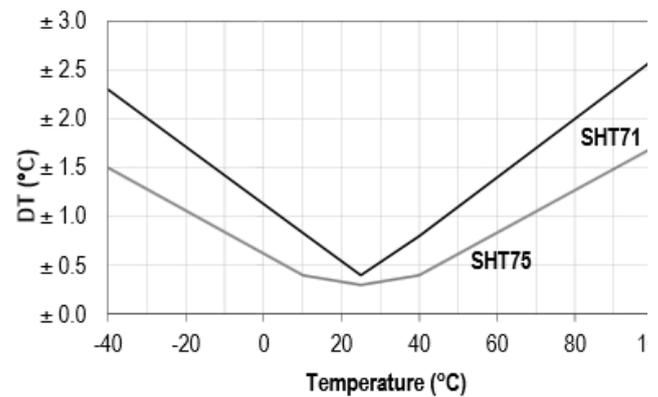


Figure 3: Maximal T-tolerance per sensor type.



Calibration Certification – SHT1x / SHT2x / SHT3x / SHT7x Series



SENSIRION
THE SENSOR COMPANY

Calibration Certification

Product: SHT1x / SHT2x / SHT3x / SHT7x Series

Description: Digital Humidity and Temperature Sensors

The above mentioned products are calibrated to meet the specifications according to the corresponding Sensirion data sheet. Each device is individually tested after its calibration.

Sensirion uses transfer standards for the calibration. These transfer standards are themselves subject to a scheduled calibration procedure. The calibration of the reference itself used for the calibration of the transfer standards is performed by an ISO/IEC 17025 accredited laboratory.

The accreditation body is full member of the International Laboratory Accreditation Cooperation (www.ilac.org). Calibration certificates issued by facilities accredited by a signatory to the ILAC Mutual Recognition Arrangement (MRA) are accepted by all signatories to the ILAC MRA.

This provides traceability of measurement to recognized national standards and to units of measurement realized at the "National Physical Laboratory" (NPL) or other recognized national standards laboratories like "Physikalisch-Technische Bundesanstalt" (PTB) or "National Institute of Standards and Technology" (NIST).

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