Digital Temperature and Humidity Sensor SHT 11
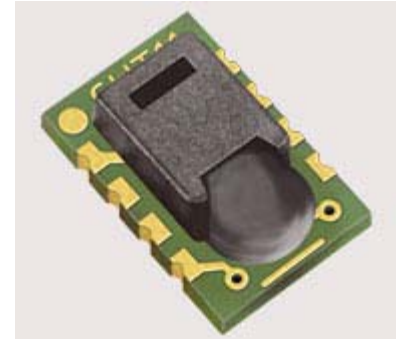
SHT 11

_ Relative humidity and temperature measurement
_ Both dew point
_ All calibration, digital output,
_ Excellent long-term stability
_ No additional components
_ Ultra-low power
_ Surface Mount or 4-pin fully interchangeable installation
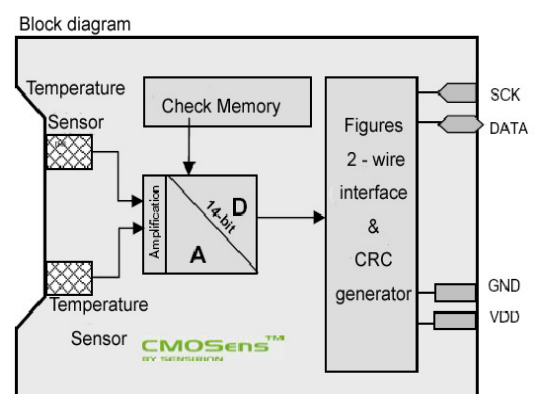_ Ultra-small size
_ Auto Sleep

SHT11

SHT11series chip-type temperature and humidity sensor chip; full scale calibration, two-line digital output; humidity measuring range: 0 ~ 100% RH; humidity measuring range: -40 ~ +123.8 ℃; humidity measuring accuracy: ±3% RH; temperature measurement accuracy: ±0.4% ℃ Response time: <8s; low power (typ. 30μW); can be completely submerged.

SHT11 Product Overview

SHT xx series of single-chip sensor is a digital signal output with a calibrated temperature and humidity combined sensor. It uses patented the process of industrial micro-processing technology COMS (CMOSens ®), to ensure that products with high reliability and excellent long term stability. Sensor includes a capacitive polymer humidity measuring device and a gap-type temperature measurement devices, and with a 14-bit A / D converter and serial interface circuit on the same chip to achieve seamless connectivity. Therefore, the product has excellent quality, fast response, anti-interference ability, high cost and other advantages. Each SHTxx sensors

are extremely accurate calibration of humidity calibration chamber. Calibration coefficients stored in the OTP program memory, internal sensor, signal processing in the detection process to call these calibration coefficients. Two-wire serial interface and internal reference voltage, the system integration becomes simpler and quicker. Ultra-small size, low power consumption, making it a wide range of applications and even the most demanding applications is the best choice. Available surface mount LCC (lead-free chip) or 4-pin single-row pin package. Special packages can be provided according to user needs.

Application areas: data acquisition process control transmitter auto industry automation &

HVAC building control power measurement test the pharmaceutical industry

Similar selection of digital temperature and humidity sensor

Product Image	Product Name	Mode	Humidity Accuracy(% RH)	Temperature accuracy (℃)	Package
	Original patch Temperature and humidity sensor	SHT10	±4.5	±0.5℃at 25℃	SMD SO-8
		SHT11	±3.0	±0.4℃at 25℃	SMD SO-8
		SHT15	±2.0	±0.3℃at 25℃	SMD SO-8
	1.27 pitch pin-type Temperature and humidity sensor	SHT71	±3.0	±0.4℃at 25℃	1.27mm pitch, 4-pin pin
		SHT75	±1.8	±0.3℃at 25℃	4-pin pin
	Universal Protection Type	SLHT1-1	±4.5	±0.5℃at 25℃	Metal protection package, 1 meter lead
	2.54 pitch pin-type Temperature and humidity sensor	SLHT2-1	±4.5	±0.5℃at 25℃	4-pin pin, 2.54mm pitch
		SLHT2-2	±3.0	±0.4℃at 25℃	
		SLHT2-3	±2.0	±0.3℃at 25℃	
	Micro-protection-type	SLHT3-1	±3.0	±0.4℃at 25℃	Lead Protection
		SLHT3-2	±1.8	±0.3℃at 25℃	Lead Protection
	Industrial Protective type	SLHT4-1	±4.5	±0.5℃at 25℃	Galvanized metal to prevent the dust, good air permeability
		SLHT4-2	±3.0	±0.4℃at 25℃	
		SLHT4-3	±2	±0.3℃at 25℃	
		SLHT4-4	±3	±0.3℃at 25℃	
		SLHT4-5	±1.8	±0.3℃at 25℃	

	Soil-specific temperature and humidity digital sensor	SLHT5	±3.0	±0.4℃at 25℃	Industrial Protective Packaging
	Wall-mounted digital temperature and humidity sensors	SLHT6-1	±1.8	±0.3℃at 25℃	Can be used to measure the wet concrete
		SLHT6-2	±3.0	±0.4℃at 25℃	
		SLHT6-3	±1.8	±0.3℃at 25℃	
	Install temperature and humidity digital sensor	SLHT7-1	±3.0	±0.4℃at 25℃	Easy installation, the lead output
		SLHT7-2	±1.8	±0.3℃at 25℃	
		SLHT7-3	±1.8	±0.3℃at 25℃	

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