

Product data sheet

Characteristics

SMART SENSORS

Features

- Integrated 1.8 inch OLED Display
- Built-in Touch switch
- Motion Sensing
- Ambient Light Sensor
- Precision Temperature & Humidity Sensing
- -5°C to 60°C Sensing range
- Texas instruments HDC-1080 Inside
- Excellent Stability at High Humidity
- RS-485 Modbus communication
- Low Power Consumption
- 12 V DC Power
- Compact design
- Wall mount



Smart Sensors are designed for Industrial Monitoring and Automation applications. It has built-in sensors for environment monitoring . The device can be ordered with a radar based motion sensor for high sensitive motion sensing. Integrated 1.8 inch OLED display provides real time values with better visibility. Model with built-in capacitive touch sensor can be ordered where user input is required.

Ordering Information

Range of Smart Sensors

DEVICE P/N	HUMIDITY	TEMPERATURE	MOTION	LIGHT SENSOR	TOUCH	OLED
SO-TEM-HUM-ALS-D	Yes	Yes	No	Yes	No	Yes
SO-TEM-HUM-D	Yes	Yes	No	No	No	Yes
SO-TEM-HUM-ALS-C	Yes	Yes	No	Yes	No	No
SO-TEM-HUM-ALS	Yes	Yes	No	Yes	No	No
SO-TEM-HUM-LUX-MO-TC	Yes	Yes	Yes	No	Yes	No
SO-TEM-HUM-N	Yes	Yes	No	No	No	No
SO-TEM-HUM-C	Yes	Yes	No	No	No	No
SO-LS-230V	No	No	Yes	No	No	No

Main

Range of product	Smart Sensor
Product type	Environment Sensor
Rated supply voltage	12V DC .100 mA (except SO-LS-230V)
Discrete input number	N/A
Communication	1 x RS-485

Complementary

Power consumption in W	1W
Local signalling	1 LED green for PWR 1 LED green for STATUS (Programmable)
Electrical connection	Screw terminal block for connections (pitch 5.08 mm)
Mounting support	Wall mounting Panel Mounting
Height	130 mm
Depth	27 mm
Width	150 mm
Enclosure Material	ABS UL-94-HB
Product weight	0.43 Kg

Environment

Resistance to electrostatic discharge	4kV on contact	8kV on air	
Resistance to electro magnetic fields	10 V/m (80 MHz 1GHz)	3 V/m (1.4 MHz 2 GHz)	1 V/m (2 MHz 3 GHz)
Immunity to microbreaks	10 ms		
Relative humidity	10....95% without condensation in operation		
IP degree of protection	IP54		
Operating altitude	0...2000m		
Storage altitude	0...3000m		
Shock resistance	15 gn for 11 ms		

Temperature Sensing

Sensor	HDC1080
Sensing Range	5°C to 60°C
Repeatability	±0.1
Accuracy	±0.4
Calibration	Factory Calibrated

Humidity Sensing

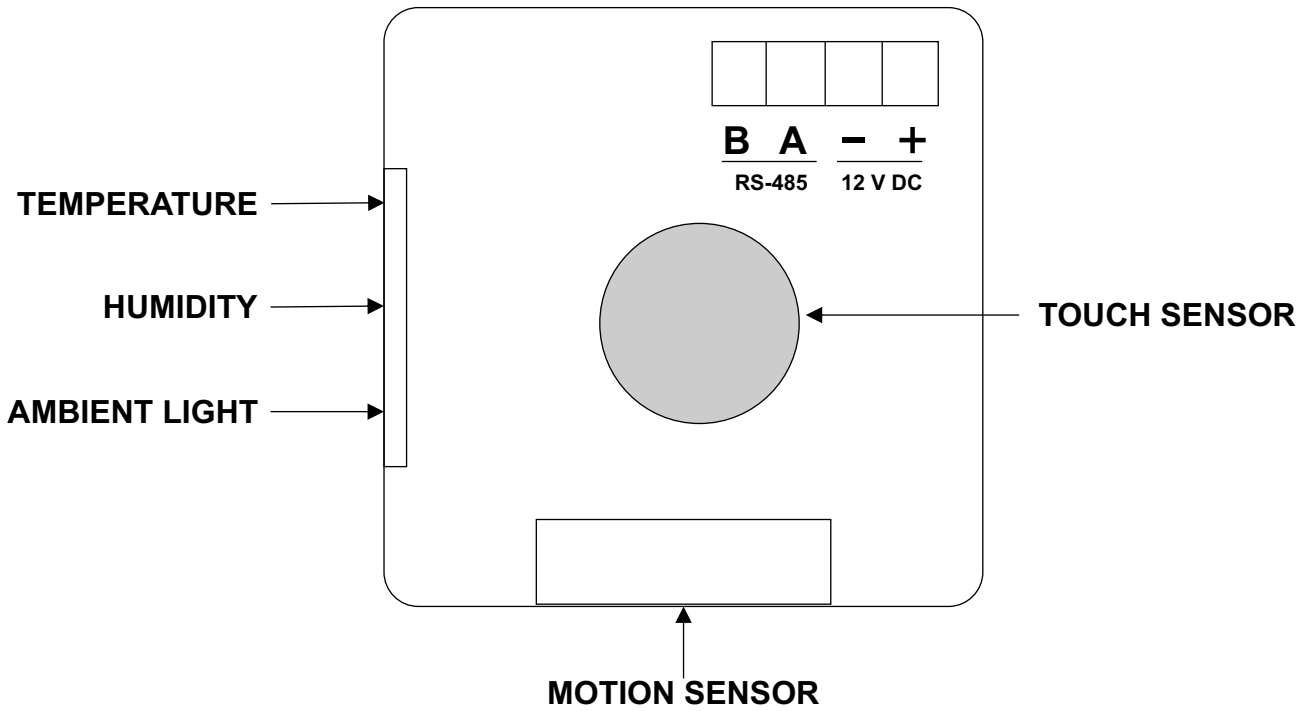
Sensor	HDC1080
Sensing Range	10% to 70%
Repeatability	±0.1
Accuracy	±2
Calibration	Factory Calibrated

Motion Sensing

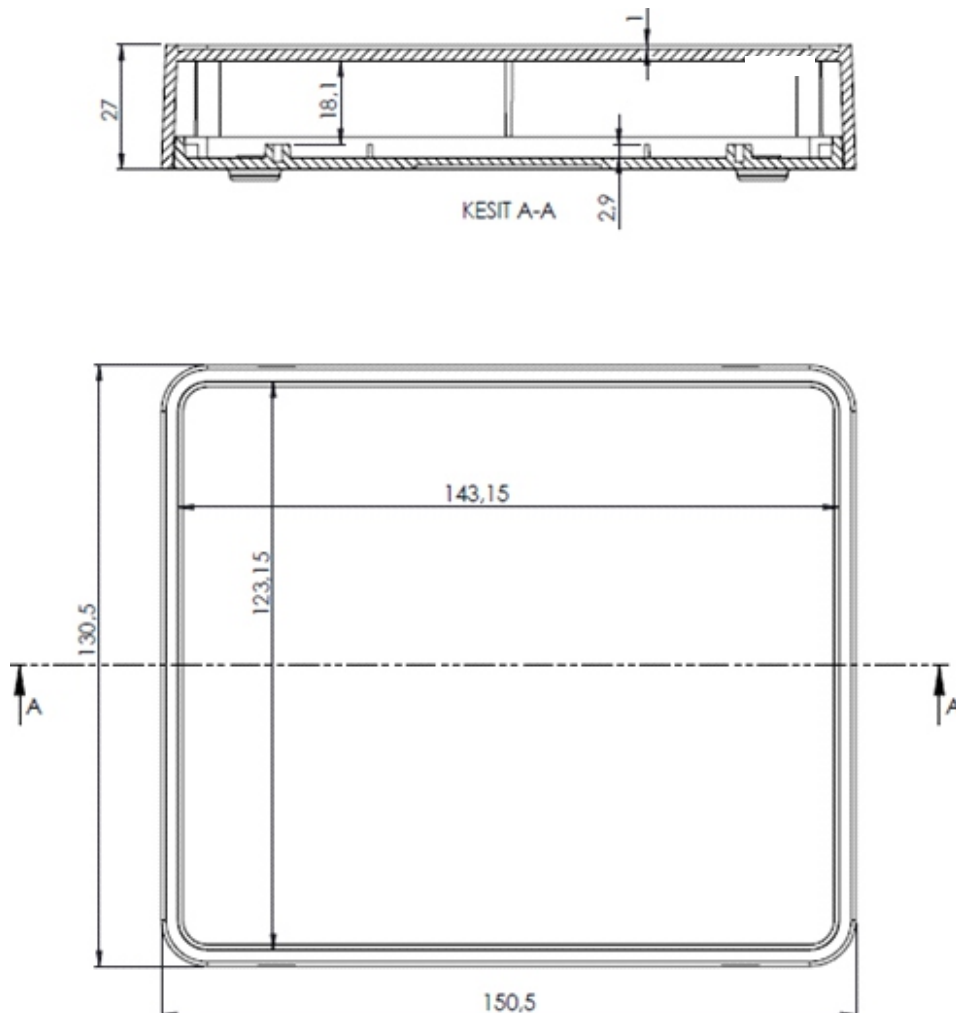
Technology	Microwave radar sensor
Sensing Range	7 meters (Approximate)
Coverage	180°

Light Sensing

Sensor	OPT3001
Sensing Range	0.01 lux to 83k lux
Coverage	180°



Dimensions





Reach-Us

Technical Support

E-mail : support@sensoper.com

Sales Inquiries

E-mail : sales@sensoper.com

www.sensoper.com

Document Revisions

Version	Changes	Date
1.2	Initial Release	13/08/2021