



SENSECAP

# SenseCAP Sensor Hub Catalog V3.1



CO<sub>2</sub>



°C



pH



# Sensor Specifications

## SenseCAP ONE S900 9-in-1 Compact Weather Sensor



Air Temperature	
Range	-40 °C ~ +85 °C
Accuracy	±0.1 °C
Resolution	0.01 °C
Air Humidity	
Range	0 ~ 100 %RH
Accuracy	±1.5 %RH
Resolution	0.01 %RH
Barometric Pressure	
Range	300 ~ 1250 hPa
Accuracy	±50 Pa
Resolution	10 Pa
Light Intensity	
Range	0 ~ 188000 Lux
Accuracy	± (5%*Value)
Resolution	5 Lux
Wind Speed (ultrasonic)	
Range	0 ~ 60 m/s
Accuracy	±3%
Resolution	0.1 m/s
Wind Direction (ultrasonic)	
Range	0 ~ 360°
Accuracy	±3°
Resolution	0.1°
Rain (Optical)	
Range	0 ~ 200 mm/h
Accuracy	±10%
Resolution	0.2/0.02 mm/h
PM2.5	
Range	0 ~ 1000 µg/m <sup>3</sup>
Accuracy	±10%
Resolution	1 µg/m <sup>3</sup>
PM10	
Range	0 ~ 2000 µg/m <sup>3</sup>
Accuracy	±15%
Resolution	1 µg/m <sup>3</sup>
Other	
Communication Protocol	RS-485(Modbus-RTU) / With Waterproof Aviation Head
Cable Length	3 Meters
Operating Temperature	-40 °C ~ +85 °C
Operating Humidity	0 ~ 100 %RH
IP Rating	IP66
Device Weight	2900g

## SenseCAP ONE S700 7-in-1 Compact Weather Sensor



Air Temperature	
Range	-40 °C ~ +85 °C
Accuracy	±0.1 °C
Resolution	0.01 °C
Air Humidity	
Range	0 ~ 100 %RH
Accuracy	±1.5 %RH
Resolution	0.01 %RH
Barometric Pressure	
Range	300 ~ 1250 hPa
Accuracy	±50 Pa
Resolution	10 Pa
Light Intensity	
Range	0 ~ 188000 Lux
Accuracy	± (5%*Value)
Resolution	5 Lux
Wind Speed (ultrasonic)	
Range	0 ~ 60 m/s
Accuracy	±3%
Resolution	0.1 m/s
Wind Direction (ultrasonic)	
Range	0 ~ 360°
Accuracy	±3°
Resolution	0.1°
Rain (Optical)	
Range	0 ~ 200 mm/h
Accuracy	±10%
Resolution	0.2/0.02 mm/h
Other	
Communication Protocol	RS-485(Modbus-RTU) / With Waterproof Aviation Head
Cable Length	3 Meters
Operating Temperature	-40 °C ~ +85 °C
Operating Humidity	0 ~ 100 %RH
IP Rating	IP66
Device Weight	1600g

# Sensor Specifications

## SenseCAP ONE S500 5-in-1 Compact Weather Sensor



Air Temperature	
Range	-40 °C ~ +85 °C
Accuracy	±0.1 °C
Resolution	0.01 °C
Air Humidity	
Range	0 ~ 100 %RH
Accuracy	±1.5 %RH
Resolution	0.01 %RH
Barometric Pressure	
Range	300 ~ 1250 hPa
Accuracy	±50 Pa
Resolution	10 Pa
Wind Speed (ultrasonic)	
Range	0 ~ 60 m/s
Accuracy	±3%
Resolution	0.1 m/s
Wind Direction (ultrasonic)	
Range	0 ~ 360°
Accuracy	±3°
Resolution	0.1°
Other	
Communication Protocol	RS-485(Modbus-RTU) / With Waterproof Aviation Head
Cable Length	3 Meters
Operating Temperature	-40 °C ~ +85 °C
Operating Humidity	0 ~ 100 %RH
IP Rating	IP66
Device Weight	1500g

## SenseCAP ORCH S4 4-in-1 Weather Sensor



Air Temperature	
Range	-40 °C ~ +85 °C
Accuracy	±0.3 °C
Resolution	0.1 °C
Air Humidity	
Range	0 ~ 100 %RH
Accuracy	±2 %RH
Resolution	1 %RH
Barometric Pressure	
Range	300 ~ 1100 hPa
Accuracy	±1 hPa
Resolution	1 Pa
Light Intensity	
Range	0 ~ 188000 Lux
Accuracy	± (5%*Value)
Resolution	0.045 Lux
Other	
Communication Protocol	RS-485(Modbus-RTU) / With Waterproof Aviation Head
Cable Length	2 Meters
Operating Temperature	-40 °C ~ +65 °C
Operating Humidity	0 ~ 100 %RH
IP Rating	IP66 (Waterproof Box) IP65 (Shield)
Device Weight	870g