

# Sensor S-One 4.0

## Laser-inclinometer sensor

model S-One 4.0



The **Sense S-One sensor** measures the deflections, deformations, or geometric changes of the roof structure under the influence of loads.

The distance is measured with a laser rangefinder with a range of up to **30 m**, which allows you to measure structures with a span of up to **60 m**. The built-in inclinometer records changes in angle (rotation) and measures the pole inclination from the vertical.

The Sense S-One communicates with and is powered by the **Gatway S-one**. The set also includes a measuring disc **100** or **150 mm** high.



## Measurements

### Distance

Maximum measuring distance	<b>30 meters</b>
Measurement accuracy	<b>±1,00 mm</b>
Laser class	<b>2</b>
Laser type	<b>635 nm, &lt;1 mW</b>

### Angle measurement

Measuring range	<b>±15°</b>
Accuracy	<b>0.009°</b>

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## Temperature

Measuring range	-10°C to +45°C
Accuracy	±1 °C
Measurement resolution	0.1 °C

## Power supply

Primary power supply	9 to 30 VDC (12 V)
Micro-USB port	5V
Maximum power consumption	0.6 W

## Wireless communication

Frequency	ISM 2.4 GHz (no permit required)
Antenna	external, mounted on the housing
Maximum transmission power	79 mW (+19 dBm)
Maximum range	up to 90 m
Network topology	Self-Healing Mesh

## Physical features

Dimensions without antenna	144mm (H) x 66mm (W) x 90mm (D)
Mounting	connector with metric M8 thread
Weight	0,9kg
Housing	stainless steel
Tightness class	IP 44
Signaling	LED diode

## Cooperates with

- **S-One measuring disc**  
100 mm or 150 mm
- **Gateway S-One**  
for sensor networks

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