

Greenhouse section 2
Dew point

25°C

Soil moisture 1c

55%

55%

Greenhouse section 24
Soil moisture level

55%

Greenhouse use

section 4

55%

Soil moisture level

55%

Soil moisture level

55%

Greenhouse section 7

Soil moisture level

55%

Greenhouse section 28
CO2 level

637 ppm

on 7
level

55

Greenhouse section 34
PAR

974
UMOL ME/S

Greenhouse section 28
CO2 level

637
ppm

Greenhouse section 4

Temperature

29°C

Greenhouse section 2

Dew point

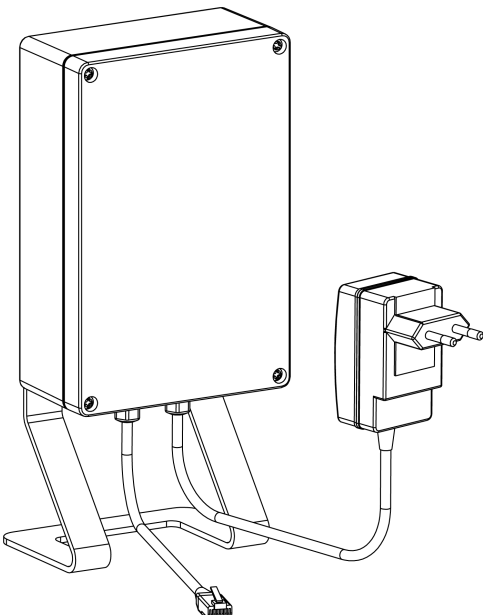
25°C

October 2021 R2

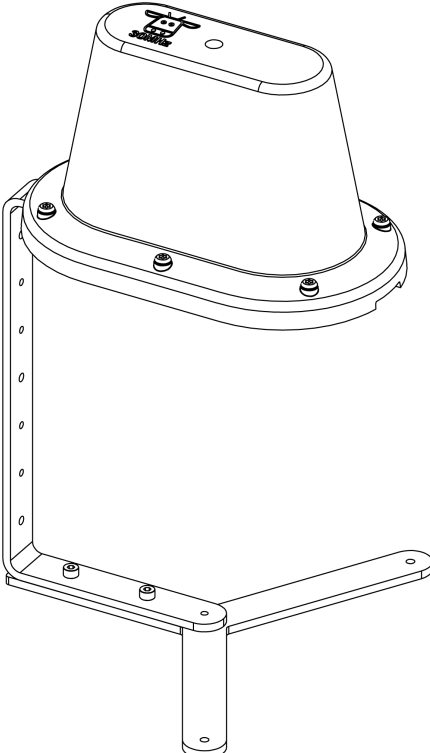


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| General | |
|----------------------------|---|
| Name | 30MHz Gateway |
| Image |  |
| Description | <p>Collects sensor data and sends it to the cloud.</p> <p>The Gateway must be placed indoor (Office environment)</p> <p>It is possible to store data up to 1.5 hours (with 10 sensors connected) when there is a disruption in the network or internet connection.</p> |
| Connectivity | |
| Range distance | <p>With 30MHz Connect placed Indoor: from 200 to 400m(depending on Greenhouse layout)</p> <p>With 30MHz Connect placed Outdoor: from 2 to 8km (depending on obstacles)</p> <p>Systems of repeaters and multiple 30MHZ Connect are possible to extend the Network range.</p> |
| Input [Radio frequency] | <p>from 863 to 870 MHz (Europe, Africa)</p> <p>from 902 to 928 MHz (Americas, Canada, Asia)</p> <p>from 915 to 928 MHz (Australia, Brazil)</p> <p>from 917 to 928 MHz (New Zealand)</p> |
| Output | Unpluggable Ethernet cable |
| Operating conditions | |
| Temperature | Office environment |
| Structural | |


| | |
|--------------------------|---|
| Dimensions (L x W x H) | 121 x 86 x 260 mm with mounting bracket |
| Weight | 835g with mounting bracket |
| Material | Polycarbonate |
| Colour | Clear top, Light gray (RAL 7035) bottom |
| Mounting options | Standing position(with bracket) |
| Power source | External Power Supply (110-230V socket) unpluggable. Available with different plug types(EU, US, AU, UK) |
| Protection(30MHz tested) | Ingress protection for dust and water according to IP65 |
| Manufacturer | 30MHz |

| General | |
|-----------------------------|--|
| Name | 30MHz Connect |
| Image |  |
| Description | 30MHz connect sends sensor data to the 30MHz gateway. It supplies power to sensors. When powered, It can be used as a repeater to extend sensors range. |
| Connectivity | |
| Range distance | With 30MHz Connect placed Indoor: from 200 to 400m(depending on Greenhouse layout) With 30MHz Connect placed Outdoor: from 2 to 8km (depending on obstacles) Systems of repeaters and multiple 30MHZ Connect are possible to extend the Network range. |
| Output [Radio frequency] | from 863 to 870 MHz (Europe, Africa) from 902 to 928 MHz (Americas, Canada, Asia) from 915 to 928 MHz (Australia, Brazil) from 917 to 928 MHz (New Zealand) |
| Operating conditions | |


| | |
|---------------------------------|---|
| Temperature | from -10 to 55°C (from 10 to 45°C while charging) |
| Relative Humidity | - |
| Structural | |
| Dimensions (L x W x H) | Case: 183x113x107mm Mounting bracket: 165x210x205mm |
| Weight | Case: 640g Mounting bracket: 450g |
| Material | Case: PC+ASA Mounting bracket and bolts: Stainless steel |
| Colour | Pure white RAL 9010 |
| Mounting options | Wall mount, stand and hanging mount |
| Power source | Rechargeable battery (life expectancy dependent on the sensor connected) External Power Supply connected to mains (110 - 230V socket), available with different plug types(EU, US, AU, UK) |
| Protection(30Mhz tested) | Water and dust according to IP67 Impact tested according to IEC 60950-1 UV radiation according to UL746C Flame resistant and self extinguishing according to UL94 V-0 |
| Manufacturer | 30MHz |

| General | |
|----------------------|--|
| Name | Pointed temperature sensor |
| Image |  |
| Description | Measure punctual object surface temperature[°C] Calculate VDP(Vapour Pressure deficit)[kPa] in combination with External temperature and humidity sensor. |
| Measurement | |
| Range | -70 to 380°C |
| Accuracy | ±0.5 °C (from 0 to 50 °C) |
| Resolution | 0.02 °C |
| Field of View | 10° |
| Operating conditions | |
| Temperature | -10 to 55°C |
| Relative Humidity | up to 85% (non condensing) |
| Structural | |
| Dimensions (d x L) | 2x42 mm |


| | |
|-----------------|---|
| Weight | 200g |
| Material | - |
| Mounting option | Provided with clamp to mount on the 30MHz Connect bracket |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) |
| Protection | - |
| Manufacturer | Melexis |

| General | | |
|----------------------|---|--------------|
| Name | Vented temperature and humidity sensor | |
| Image |  | |
| Description | <p>Wireless sensor measuring temperature and humidity. It calculates Dewpoint (°C), Absolute humidity (g/m3), Humidity deficit (g/m3), Absolute difference between temperature and Dewpoint. The Barani Design MeteoShield Pro has been specifically designed to withstand radiation from the sun or artificial lighting.</p> | |
| Measurement | | |
| Temperature | Range | -40 to 125°C |
| | Accuracy | ±0.2 °C |
| | Resolution | 0.02 °C |
| Relative Humidity | Range | 0 to 100% RH |
| | Accuracy | ±1.5% RH |
| | Resolution | 0.01% RH |
| Operating conditions | | |
| Temperature | -40 to 70°C | |
| Relative Humidity | up to 100% non-condensing (recommended from 20 to 80%) | |
| Structural | | |

| | |
|------------------------|---|
| Dimensions (L x W x H) | Sensor: 145x20mm Meteo shield: 226x170mm Mounting bracket: 210x170x260mm |
| Weight | Sensor: 150g Meteo shield: 740g Mounting bracket: 750g |
| Material | - |
| Colour | - |
| Mounting option | Provided with clamp, available with meteo shield and bracket |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) |
| Protection | Water and dust according to IP67 |
| Manufacturer | Sensirion(sensor), Barani Design(meteo shield), 30MHz assembly |

| General | |
|----------------------|--|
| Name | Photosynthetically Active Radiation sensor SQ-500 |
| Image |  |
| Description | Analog full spectrum quantum sensor designed to measure the strength of natural or artificial light. |
| Measurement | |
| Range | 0 to 4,000 $\mu\text{mol m}^{-2}\text{s}^{-1}$ |
| Accuracy | $\pm 5\%$ (due to Calibration uncertainty) |
| Resolution | 0.1 $\mu\text{mol m}^{-2}\text{s}^{-1}$ |
| Operating conditions | |
| Spectral Range | 389 to 692 nm ± 5 nm |
| Temperature | -40 to 70 $^{\circ}\text{C}$ |
| Relative Humidity | 0 to 100% |
| Structural | |

| | |
|--------------------|---|
| Dimensions (d x H) | 24 x 37 mm |
| Weight | 100 g |
| Material | - |
| Colour | - |
| Mounting option | Mounting bracket with leveling plate. |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) |
| Protection | Water and dust according to IP68 |
| Manufacturer | Apogee Instruments |

| General | | |
|-------------|---|---|
| Name | Substrate moisture sensor | |
| Image |  | |
| Description | Measure the volumetric water content(VWC), bulk electrical conductivity(ECb), and temperature of many types of growing media, primarily in greenhouse applications. | |
| Measurement | | |
| VWC | Range | 0.0 to 0.70 m3/m3 (Mineral soil calibration) 0.0 to 1.0 m3/m3 (soilless media calibration) Apparent dielectric permittivity (εa): 1 (air) to 80 (water) |
| | Accuracy | Generic calibration: ±0.03 m3/m3 (±3.00% VWC) typical in mineral soils that have solution EC <8 dS/m Medium specific calibration: ±0.01–0.02 m3/m3 (±1–2% VWC) in any porous medium Apparent dielectric permittivity (εa): 1–40 (soil range) , ±1 εa (unitless) 40–80, 15% of measurement |
| | Resolution | 0.001 m³/m³ |
| Temperature | Range | -40 to 60 °C |
| | Accuracy | ±0.5 °C (from -40 to 0 °C) ±0.3 °C (from 0 to 60 °C) |

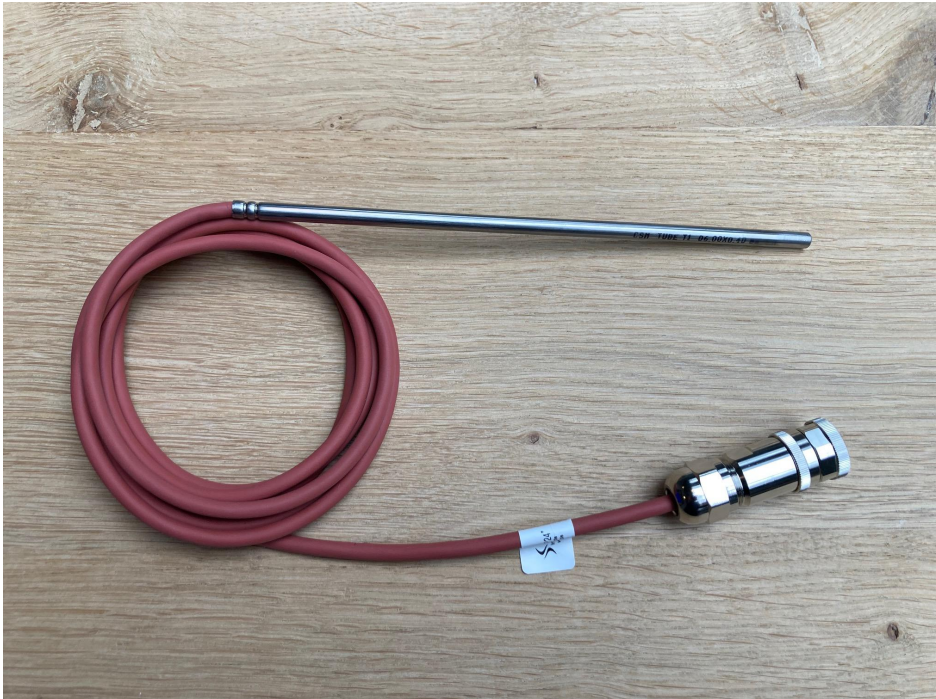
| | | |
|------------------------|--|--|
| | Resolution | 0.1 °C |
| ECb | Range | 0 to 20 dS/m (bulk) |
| | Accuracy | ±(5% + 0.01 μS/cm) from 0 to 10 μS/cm), ±8% from 10 to 20 μS/cm) |
| | Resolution | 0.001 dS/m |
| Available calibrations | 26 | Glass Wool Slab |
| | 12 | Glasswool Starter Block |
| | 3 | Perlite slab |
| | 2 | Perlite Starter Block |
| | 3 | Organic mix slab |
| | 11 | Coir slab (Coconut) |
| Operating conditions | | |
| Temperature | -40 to 60 °C | |
| Relative Humidity | - | |
| Structural | | |
| Dimensions (L x W x H) | 94 x24x75mm | |
| Weight | 140g | |
| Material | - | |
| Colour | - | |
| Mounting option | - | |
| Power source | Powered by 30MHz connect (Battery life: more than one year with measurement frequency every 1 minute) | |
| Protection | - | |
| Manufacturer | Meter Environment | |

| General | | |
|----------------------|---|---|
| Name | Soil moisture sensor | |
| Image |  | |
| Description | Determine the volumetric water content (VWC) by measuring the dielectric constant of the medium using capacitance and frequency domain technology to provide accurate measurements of all soils and soilless media with a wide range of salinities. | |
| Measurement | | |
| VWC | Range | Mineral soil calibration: 0.00 to 0.64 m³/m³ Soilless media calibration: 0.0 to 0.7 m³/m³ Apparent dielectric permittivity (εa): 1 (air) to 80 (water) |
| | Accuracy | Mineral soil calibration: ±0.03 m³/m³ <i>Typical in mineral soils that have solution EC lower than 8 dS/m</i> Soilless media calibration: ±0.05 m³/m³ <i>Typical in media that has a solution EC lower than 8 dS/m</i> Medium specific calibration: ±0.01...0.02 m³/m³ <i>In any porous medium</i> Apparent dielectric permittivity (εa): 1 to 40 (soil range), ±1 εa (unitless) 40 to 80, 15% of measurement |
| | Resolution | 0.001 m³/m³ |
| Operating conditions | | |


| | |
|------------------------|--|
| Temperature | -40 to 60 °C |
| Relative Humidity | - |
| Structural | |
| Dimensions (L x W x H) | 51x24x75mm |
| Weight | 72g |
| Material | - |
| Colour | - |
| Mounting option | - |
| Power source | Powered by 30MHz connect (Battery life: more than one year with measurement frequency every 1 minute) |
| Protection | - |
| Manufacturer | Meter Environment |

| General | | |
|------------------------|---|---|
| Name | Potted soil moisture sensor | |
| Image |  | |
| Description | Monitor VWC in potted soil. | |
| Measurement | | |
| VWC | Range | 0 to 100% |
| | Accuracy | Generic calibration: $\pm 0.03 \text{ m}^3/\text{m}^3$ <i>Typical in mineral soils that have solution EC lower than 8 dS/m</i> Medium specific calibration: $\pm 0.02 \text{ m}^3/\text{m}^3$ <i>In any porous medium ($\pm 2\%$)</i> |
| | Resolution | 0.001 m^3/m^3 |
| Operating conditions | | |
| Temperature | -40 to 60 °C | |
| Relative Humidity | - | |
| Structural | | |
| Dimensions (L x W x H) | 89x18x7mm | |
| Weight | 8g | |


| | |
|-----------------|--|
| Material | - |
| Colour | - |
| Mounting option | - |
| Power source | Powered by 30MHz connect (Battery life: more than one year with measurement frequency every 1 minute) |
| Protection | - |
| Manufacturer | Meter Environment |

| General | | |
|----------------------|---|--|
| Name | Temperature probe sensor - PT100 | |
| Image |  | |
| Description | <p>This sensor is designed for an accurate measurement of the temperature of raw materials, liquids or crops in storage. Especially for places where it is necessary to monitor in the center such as a pile of crops, reservoirs or any similar situation.</p> <p>Available with different probe length (50, 100, 200mm)</p> | |
| Measurement | | |
| Temperature | Range | -200 to 600 °C |
| | Accuracy | ±0.15 °C at 0 °C, ±0.51 °C at 180 °C, ±0.27 °C at -60 °C |
| | Resolution | 0.1 °C |
| Operating conditions | | |
| Temperature | -60 to 180 °C | |
| Relative Humidity | Up to 100% | |
| Structural | | |
| Dimensions (dxL) | 6 x 50, 100, 200 mm | |


| | |
|-----------------|---|
| Weight | 154g |
| Material | Stainless steel for the probe with Silicone cable |
| Colour | - |
| Mounting option | - |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) |
| Protection | IP65 |
| Manufacturer | Sensorshop24 |

| General | | |
|---------------------------|--|---|
| Name | Photosynthesis Efficiency + PAR sensor | |
| Image |  | |
| Description | <p>With the photosynthesis sensor you can determine the photosynthetic activity of your plant.</p> <p>The photosynthesis sensor is combined with a PAR measurement. This measures the light at which the plant grows best, in other words where photosynthesis is highest.</p> | |
| Measurement | | |
| Photosynthesis Efficiency | Range | 10 to 90% |
| | Accuracy | - |
| | Resolution | 0.1% |
| PAR | Range | 0 to 2000 $\mu\text{mol m}^{-2}\text{s}^{-1}$ |
| | Accuracy | 20 $\mu\text{mol m}^{-2}\text{s}^{-1}$ |
| | Resolution | 0.1 $\mu\text{mol m}^{-2}\text{s}^{-1}$ |
| Operating conditions | | |
| Temperature | 5 to 45 °C | |


| | |
|------------------------|---|
| Relative Humidity | - |
| Structural | |
| Dimensions (L x W x H) | Housing: 169 x 62 x 25 mm Probe: 6 mm diameter: |
| Weight | 790g (with protection box) |
| Material | - |
| Colour | - |
| Mounting option | Provided with protection box and leaf clip |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) |
| Protection | IP53 without protection box |
| Manufacturer | Sendot |

| General | | |
|----------------|---|---|
| Name | Oxygen and temperature sensor | |
| Image |  | |
| Description | <p>The sensitive coating on the top of the optrode contains two active components, one to measure temperature and one to measure oxygen. The temperature compensation is thus fully integrated in the same coating. The advantage of this is that the sensor does not suffer from response time differences and can therefore be used well in rapidly changing environments.</p> <p>Coating lifetime from 6 month to 1 year depending on the measurement frequency.</p> | |
| Measurement | | |
| O ₂ | Range | In gas: 0 to 45% Vol Dissolved: 0 to 18 mg/L Saturation in water: 0 to 200% |
| | Accuracy | In gas: ±0.1% (O ₂ <10%) ±0.2% (1%<O ₂ <25%) ±1% (O ₂ >25%) Dissolved: ±0.05mg/L (O ₂ <1mg/L) ±0.1mg/L (1mg/L<O ₂ <10mg/L) ±1% (O ₂ >10mg/L) Saturation in water: ± 0.5 % (O ₂ <10%) ±1% (O ₂ >10%) |
| | Resolution | 0.01% |
| Temperature | Range | 5 to 45 °C |
| | Accuracy | ± 1 °C |

| | | |
|------------------------|---|----------|
| | Resolution | 0.1 °C |
| Pressure | Range | - |
| | Accuracy | ± 5 mBar |
| | Resolution | 1 mBar |
| Operating conditions | | |
| Temperature | 5 to 45 °C | |
| Relative Humidity | - | |
| Structural | | |
| Dimensions (L x W x H) | Housing: 169 x 62 x 25 mm Probe: 6 mm diameter | |
| Weight | 790g (with protection box) | |
| Material | Stainless steel with ABS covers | |
| Colour | - | |
| Mounting option | Provided with protection box | |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) | |
| Protection | IP53 without protection box | |
| Manufacturer | Sendot | |

| General | | |
|------------------------|--|---|
| Name | pH Acidity sensor | |
| Image |  | |
| Description | <p>It is a very versatile instrument based on a ratiometric optical measurement. It measures the acidity in soil and substrates and low conductivity solutions.</p> <p>Coating lifetime up to 9 months depending on the measurement frequency.</p> | |
| Measurement | | |
| pH | Range | 3.0 – 8.5 pH |
| | Accuracy | ± 0.2 pH (pH < 4.0) ± 0.1 pH (4.0 < pH < 7.0) ± 0.2 pH (7.0 < pH) |
| | Resolution | 0.01pH |
| Operating conditions | | |
| Temperature | 5 to 45 °C | |
| Relative Humidity | - | |
| Structural | | |
| Dimensions (L x W x H) | Housing: 169 x 62 x 25 mm Probe: 6 mm diameter: | |
| Weight | 790g (with protection box) | |
| Material | Stainless steel with ABS covers | |


| | |
|-----------------|---|
| Colour | - |
| Mounting option | Provided with protection box |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) |
| Protection | IP53 without protection box |
| Manufacturer | Sendot |

| General | | |
|------------------------|--|---|
| Name | Chlorophyll fluorescence sensor | |
| Image |  | |
| Description | <p>It measures chlorophyll by its fluorescence after excitation with pulsed blue LED light.</p> <p>Measuring chlorophyll can be used to:</p> <ul style="list-style-type: none">- Monitor the efficiency of the chlorophyll fluorescence process in plants.- Determine The ripeness of fruits and seeds. <p>The Sensor is either provided with a leaf clip for the measurements on leaves of living plants or with a stainless-steel read-out probe better suited for the measurements on seeds.</p> | |
| Measurement | | |
| CF | Range | 0 to 10 mg/g or 0 to 35,000 counts |
| | Accuracy | ± 0.1 mg/g ($CF < 1$ mg/g) ± 0.2 mg/g (1 mg/g $< CF < 5$ mg/g) ± 0.3 mg/g (5 mg/g $< CF$) |
| | Resolution | 0.1 mg/g |
| Operating conditions | | |
| Temperature | 5 to 45 °C | |
| Relative Humidity | - | |
| Structural | | |
| Dimensions (L x W x H) | Housing: 169 x 62 x 25 mm Probe: 6 mm diameter: | |


| | |
|-----------------|---|
| Weight | 790g (with protection box) |
| Material | Stainless steel with ABS covers |
| Colour | - |
| Mounting option | Provided with protection box |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) |
| Protection | IP53 without protection box |
| Manufacturer | Sendot |

| General | | |
|----------------------|--|---|
| Name | CO2 sensor | |
| Image |  | |
| Description | <p>The active compensation with on-board sensors leads to best CO2 measurement accuracy independently of temperature, altitude or weather conditions.</p> <p>Available in 2 variants(2000 and 10000 ppm)</p> | |
| Measurement | | |
| CO2 | Range | 0 to 2000 ppm or 0 to 10000 ppm |
| | Accuracy | ±50 ppm + 2% (for 2000ppm) , ±100 ppm + 5% (for 10000ppm) |
| | Resolution | 1 ppm |
| Operating conditions | | |
| Temperature | -40 to 60 °C | |
| Relative Humidity | 0 to 95%RH (non condensing) | |
| Pressure | 700 to 1100 mbar | |
| Structural | | |
| Dimensions (L x d) | 136 x 25 mm | |
| Weight | 30g | |


| | |
|-----------------|---|
| Material | Plastic(PET), UL94HB approved |
| Colour | - |
| Mounting option | Provided with clamp to mount on the 30MHz Connect bracket |
| Power source | External Power Supply(110 - 230V socket) plugged-in through 30MHz connect |
| Protection | IP65 |
| Manufacturer | E+E Elektronik |

| General | | |
|-----------------------------------|---|-----------------|
| Name | Wind speed sensor | |
| Image |  | |
| Description | Professional Wind speed sensor. It is completely made of metal and if necessary the cup rotor is easy to change in the field. To be used outdoors. | |
| Measurement | | |
| Velocity | Range | 0.4 to 55.0 m/s |
| | Accuracy | ±0.5 m/s |
| | Resolution | 0.1 m/s |
| Operating conditions | | |
| Max impact velocity | 80m/s | |
| Relative Humidity | - | |
| Structural | | |
| Dimensions (r x H) (L x W x H) | Sensor: 108 x 192 mm Mounting bracket: 115x56x130mm | |
| Weight | Sensor: 280g Mounting bracket: 550g | |
| Material | Seawater resistant aluminium | |
| Colour | - | |
| Mounting option | Available with Standing position mounting bracket. | |
| Power source | Powered by 30MHz connect | |

| | |
|--------------|--|
| | (Battery life: more than one year with measurement frequency every 1 minute) |
| Protection | IP65 (in upright position) |
| Manufacturer | Lambrecht Meteo |

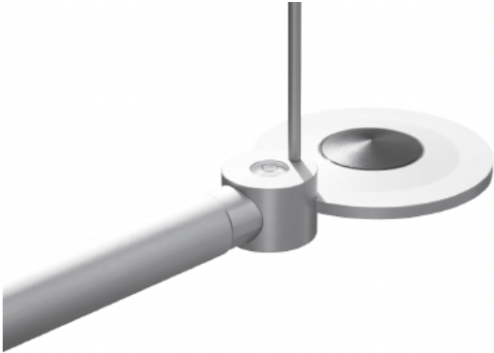
| General | | |
|-----------------------------------|---|-----------|
| Name | Wind direction sensor | |
| Image |  | |
| Description | It measures wind direction. | |
| Measurement | | |
| Direction | Range | 0 to 360° |
| | Accuracy | ±2° |
| | Resolution | 1° |
| Operating conditions | | |
| Velocity | 0.4 to 80m/s | |
| Structural | | |
| Dimensions (L x H) (L x W x H) | Sensor: 245x256mm Mounting bracket: 115x56x130mm | |
| Weight | Sensor: 300g Mounting bracket: 550g | |
| Material | Seawater resistant aluminium | |

| | |
|-----------------|--|
| Colour | - |
| Mounting option | Available with Standing position mounting bracket. |
| Power source | Powered by 30MHz connect (Battery life: more than one year with measurement frequency every 1 minute) |
| Protection | IP65 (in upright position) |
| Manufacturer | Lambrecht Meteo |

| General | | |
|----------------------|---|--|
| Name | Rain sensor | |
| Image |  | |
| Description | The rain sensor with radar technology and adjustable heating. Using a 24-GHz Doppler radar, it measures the speed of all forms of condensed water. These include rain, freezing rain, hail, snow and sleet. It can measure rain intensity, size and type. | |
| Measurement | | |
| Droplet size | Range | 0.3 to 5mm |
| | Accuracy | ±0.16mm or ±10% of the measured value for liquid precipitation |
| | Resolution | 0.01 / 0.1 / 0.2 / 0.5 / 1.0 mm |
| Intensity | Range | 0.01 to200 mm/h |
| Velocity | Range | 0.9 to 15.5 m/s |
| Operating conditions | | |
| Temperature | -40 to 60 °C | |
| Relative Humidity | 0 to 100% | |
| Wind speed | Up to 75m/s | |
| Structural | | |
| Dimensions (d x H) | 150mm x 190mm | |
| Weight | 0.6kg | |
| Material | - | |
| Colour | - | |

| | |
|-----------------|---|
| Mounting option | Integrated clamp, suitable for mast diameter 60 - 76 mm |
| Power source | External Power Supply(110 - 230V socket) plugged-in through 30MHz connect |
| Protection | Water and Dust according to IP66 |
| Manufacturer | Lufft |


| General | | |
|------------------------|---|---------------------------------------|
| Name | Scale | |
| Image |  | |
| Description | Weighing platform with hole pattern for water drainage. Available with 2 weighing platform dimensions. | |
| Measurement | | |
| Weight | Max Capacity | 6, 15, 30 kg |
| | Accuracy | according to Max capacity 1, 2.5, 5 g |
| | Resolution | 1g |
| Operating conditions | | |
| Temperature | Up to 60°C | |
| Structural | | |
| Dimensions (L x W x H) | 300x200x46mm and 600x300x46mm | |
| Weight | - | |
| Material | Stainless steel | |
| Mounting option | - | |
| Power source | Powered by 30MHz connect (Battery life: up to 5 months with measurement frequency every 1 minute) | |
| Protection | Do Not use with flooding watering system | |
| Manufacturer | Henk Maas Weegschalen B.V. | |



| General | | |
|------------------------|--|---------------|
| Name | NR Lite2 NET Radiometer | |
| Image |  | |
| Description | NR Lite2 is designed for routine measurement of net radiation which is the balance between incoming radiation from the sun and sky and outgoing radiation from the ground. | |
| Measurement | | |
| Spectral range | Range | 0.2 to 100 μm |
| | Accuracy | 10 μV/W/m² |
| | Resolution | 0.24 μV |
| Operating conditions | | |
| Temperature | -40 to 70 °C | |
| Relative Humidity | 0 to 100% (non-condensing) | |
| Structural | | |
| Dimensions (L x W x H) | 880x80x73 mm | |
| Weight | 500 g | |
| Material | - | |
| Colour | - | |
| Mounting option | Available specific mounting steel bracket(suitable for mast diameter from 22 to 60mm) | |
| Power source | Powered by 30MHz connect (Battery life: up to 2 years with measurement frequency every 1 minute) | |
| Protection | IP67 ingress protection | |

| | |
|--------------|--------------------------------|
| Manufacturer | Kipp&Zonen |
|--------------|--------------------------------|

| General | | |
|----------------------|--|------------|
| Name | Airflow sensor | |
| Image |  | |
| Description | <p>The ATMOS22 is an ultrasonic anemometer. Unlike cup anemometer, it can detect wind speed and wind direction. There aren't any moving parts that cause friction or fail:</p> <ul style="list-style-type: none">- No calibration is required- No oil or replacing bearing are required- It is accurate at low speed- It can register even the lowest threshold of wind speed | |
| Measurement | | |
| Wind speed | Range | 0 to 30m/s |
| | Accuracy | 3% |
| | Resolution | 0.01 m/s |
| Wind direction | Range | 0° to 359° |
| | Accuracy | ±5° |
| | Resolution | 1° |
| Operating conditions | | |
| Temperature | -50 to 60 °C | |
| Relative Humidity | - | |
| Structural | | |

| | |
|--------------------|--|
| Dimensions (d x H) | 100 x 160 mm |
| Weight | 700 g |
| Material | - |
| Colour | - |
| Mounting option | Mounting pole diameter from 31.8 to 50.8 mm(not included) |
| Power source | Powered by 30MHz connect (Battery life: up to one year with measurement frequency every 1 minute) |
| Protection | - |
| Manufacturer | Meter group |

| General | |
|---------------------------------|--|
| Name | Object counter |
| Description | It is available in different versions depending on the distance of the objects to count. Specific flap beam to count small objects. |
| Standard short Range version | |
| Image |  |
| Object distance range | 0 to 1m |
| Laser shape | Point beam |
| Adjustable sensitivity | yes |
| Reflector | no |
| Signal type | PNP |
| Protection | IP67 |
| Operating temperature | -25 to 55 °C with NO icing or Condensation |
| Manufacturer | Omron |
| Dimensions (L x d) | Sensor: 41 x 18 mm |
| Power source | External Power Supply(110 - 230V socket) plugged-in through 30MHz connect |
| Long range extra robust version | |

| | | |
|-----------------------------------|--|--|
| Image |  | |
| Object distance range | 0.1 to 4m | |
| Laser shape | Point beam | |
| Adjustable sensitivity | no | |
| Reflector | yes | |
| Sygnal type | PNP | |
| Protection | IP68 | |
| Operating temperature | -25 to 55 °C with NO icing or Condensation | |
| Manufacturer | Omron | |
| Dimensions (L x d) (L x W x H) | Sensor: 48 x 18 mm Reflector: 60 x 41 x 8 mm | |
| Power source | External Power Supply(110 - 230V socket) plugged-in through 30MHz connect | |
| Small Objects version | | |
| Image |  | |
| Object distance range | 0.5 to 2m with reflector PL40A | |
| | 0.5 to 4.5m with reflector PL80A | |
| Laser shape | 50mm flat beam | |

| | |
|------------------------|---|
| Adjustable sensitivity | yes |
| Reflector | yes |
| Sygnal type | PNP |
| Protection | IP67 |
| Operating temperature | -30 to 50 °C |
| Manufacturer | Sick |
| Dimensions (L x W x H) | Sensor: 24.6 x 80 x 54.2 mm Reflector PL40A: 40 x 60 x 8 mm Reflector PL80A: 84 x 84 x 8.5 mm |
| Power source | External Power Supply(110 - 230V socket) plugged-in through 30MHz connect |

