

PAR Photosynthetic active radiation

% Relative humidity

hPa Barometric pressure

W/m² Total solar radiation

mm Rainfall

°C Air temperature

km/h Wind speed

deg Wind direction

% Leaf wetness

% Soil moisture

°C Soil temperature

www.evvos.com

SOLUTIONS FOR AGRICULTURE



Everything You Need to Connect Sensors

Out-of-the-box connectivity



No network equipment necessary to connect sensors. Just select sensors, turn on your device, and immediately start collecting data.

Very low energy consumption



Increased battery life expectancy. Reduced device maintenance. Depending on your use case, batteries last for up to several years.

Cost effective

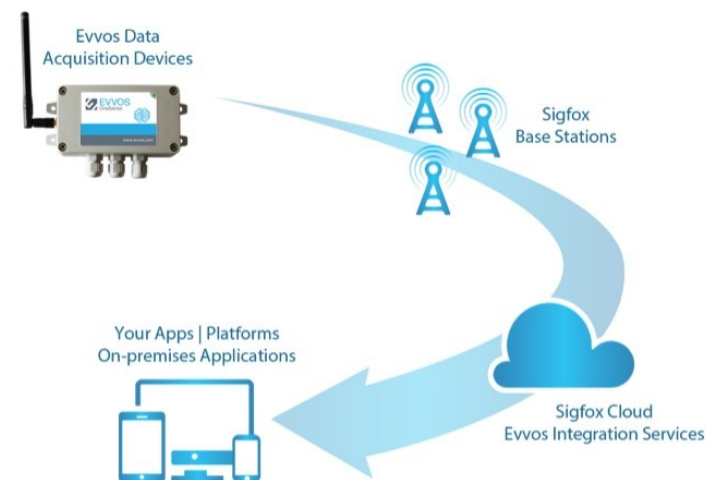


Low cost per sensing point due to the possibility to connect multiple sensors to one device.

Powerful cloud platform



Scalable Cloud Integration Services (CIS) platform, capable of processing data from millions of sensors. RESTful APIs and message relaying for easy integration with your apps.



How it Works

Evvos devices acquire data from all sensors connected to it. Data is processed and packaged in appropriate format and then transmitted. One or more antenna(e) receive the signal. Each message undergoes a series of checks at the base station to confirm authenticity and compliance to network operator regulations and is then sent to the operator's cloud. The network operator cloud conducts message deduplication and "pushes" each message to the Evvos CIS application. To extract meaningful data out of messages, Evvos CIS employs algorithms (similar to those used in its hardware). Simplified integration of sensor data with "push" (Relays/https) and "pull" (API) methods.



EVVOS WEATHER STATION EWS - 1

17 weather variables: Relative Humidity, Ambient Temperature, Barometric Pressure, Heat Index, Dew Point, Frost Point, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC29

Precision – Humidity ($\pm 0.07\%$), Temperature ($\pm 0.02^\circ\text{C}$), Pressure ($\pm 0.8\text{hPa}$)

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-1

sales@evvos.com

Weather Sensors Empowered

The EVVOS Weather Station packages up to 6 weather sensors into a single, compact solution for atmospheric measurements. It is designed for continuous deployment, with long battery life. Simple to install and easy to maintain, the weather station provides accurate sensor data and modular design. Pay only for the sensors your need and add solar panel, external battery or GPS whenever required.



EVVOS WEATHER STATION EWS – 1 CO2

18 weather variables: CO₂ – percentage in air (%), Relative Humidity, Ambient Temperature, Barometric Pressure, Heat Index, Dew Point, Frost Point, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations - UC23

Precision – Humidity (±0.07%), Temperature (±0,02°C), Pressure (±0,8hPa)

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-1-CO2

sales@evvos.com



EVVOS WEATHER STATION EWS – 1 LW

18 weather variables: Leaf Wetness, Relative Humidity, Ambient Temperature, Barometric Pressure, Heat Index, Dew Point, Frost Point, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC21

Precision – Humidity ($\pm 0.07\%$), Temperature ($\pm 0.02^\circ\text{C}$), Pressure ($\pm 0.8\text{hPa}$)

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-1-LW

sales@evvos.com



EVVOS WEATHER STATION EWS - 2

18 weather variables: Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Heat Index, Dew Point, Frost Point, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC29

Rainfall calibration 0.2 mm

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-2

sales@evvos.com



EVVOS WEATHER STATION EWS – 2 LW

19 weather variables: Leaf Wetness, Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Heat Index, Dew Point, Frost Point, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC22

Rainfall calibration 0.2 mm

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-2-LW

sales@evvos.com



EVVOS WEATHER STATION EWS – 2 CO2

CO₂ Percentage in air (%) + 18 weather variables: Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Heat Index, Dew Point, Frost Point, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC23

Rainfall calibration 0.2 mm

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-2-CO2

sales@evvos.com



EVVOS WEATHER STATION EWS – 2 PLR

21 weather variables: Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Light Radiation, Underwater Light Radiation, Vertical Offset Angle, Heat Index, Dew Point, Frost Point, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC24

Rainfall calibration 0.2 mm. Build-in automatic sensor recognition for [Apogee Instruments, Inc.](#) SQ-421-SS, SQ-521-SS, SQ-617-SS, and SQ-647-SS sensors.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-2-PLR-SQX

sales@evvos.com



EVVOS WEATHER STATION EWS - 3

22 weather variables: Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Wind Speed, Wind Direction, Heat Index, Dew Point, Frost Point, Wind Chill, Wind Chill Index, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC27

Rainfall calibration 0.2 mm. Detects fine-scale wind speed variations with 0.1 m/s resolution

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-3

sales@evvos.com



EVVOS WEATHER STATION EWS – 3 LW

23 weather variables: Leaf Wetness, Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Wind Speed, Wind Direction, Heat Index, Dew Point, Frost Point, Wind Chill, Wind Chill Index, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC22

Rainfall calibration 0.2 mm. Detects fine-scale wind speed variations with 0.1 m/s resolution

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-3-LW

sales@evvos.com



EVVOS WEATHER STATION EWS - 4

23 weather variables: Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Solar Radiation, Wind Speed, Wind Direction, Heat Index, Dew Point, Frost Point, Wind Chill, Wind Chill Index, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC26

Rainfall calibration 0.2 mm. Pyranometer ISO 9060:2018, Class C

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-4

sales@evvos.com



EVVOS WEATHER STATION EWS – 4 PLR

25 weather variables: Relative Humidity, Ambient Temperature, Barometric Pressure, Precipitation, Light Radiation, Underwater Light Radiation, Vertical Offset Angle, Wind Speed, Wind Direction, Heat Index, Dew Point, Frost Point, Wind Chill, Wind Chill Index, Water Vapour Pressure, Saturated Vapour Pressure, Speed of Sound in Air, Mixing Ratio, Specific Humidity, Absolute Humidity of Air, Boiling Point of Water, Enthalpy, Atmospheric Moisture by Weight, Atmospheric Moisture by Volume, Wet-bulb temperature

CIS Message Decoder: Evvos Weather Stations – UC25

Rainfall calibration 0.2 mm. Build-in automatic sensor recognition for [Apogee Instruments, Inc.](#) SQ-421-SS, SQ-521-SS, SQ-617-SS, and SQ-647-SS sensors.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: B-SRX-EWS-4-PLR

sales@evvos.com



ONESENSE AGRICULTURE- UC1

4/6-depths AquaCheck probe (4/6 soil moisture and 4/6 soil temperature sensors)

CIS Message Decoder: OneSense Agriculture – UC1

Up to 15 soil moisture and soil temperature sensors (contact sales@evvos.com)

Cost-effective and easy to install, operate and maintain

Optional solar panel or external battery pack for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC1

sales@evvos.com



ONESENSE AGRICULTURE- UC2

4/6-depths AquaCheck probe (4/6 soil moisture and 4/6 soil temperature sensors) and rain gauge

CIS Message Decoder: OneSense Agriculture – UC2

Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAXRX-LI2-UC2

sales@evvos.com



ONESENSE AGRICULTURE- UC3

4/6-depths AquaCheck probe (4/6 soil moisture and 4/6 soil temperature sensors), self-emptying, tipping bucket rain gauge and air temperature

CIS Message Decoder: OneSense Agriculture – UC3

Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAXRX-LI2-UC3

sales@evvos.com



ONESENSE AGRICULTURE- UC6

Self-emptying, tipping bucket rain gauge

CIS Message Decoder: OneSense Agriculture – UC6

Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC6

sales@evvos.com



ONESENSE AGRICULTURE- UC7

Air and soil temperature

CIS Message Decoder: OneSense Agriculture – UC7

Temperature -50 °C ... +125 °C. Accuracy ± 0,5 °C (-10 °C ... 85 °C).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC7

sales@evvos.com



ONESENSE AGRICULTURE- UC8

Self-emptying, tipping bucket rain gauge and air and soil temperature

CIS Message Decoder: OneSense Agriculture – UC8

Rainfall calibration 0.2 mm. Temperature -50 °C ... +125 °C. Accuracy ± 0,5 °C (-10 °C ... 85 °C).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC8

sales@evvos.com



ONESENSE AGRICULTURE- UC9

Air or soil temperature

CIS Message Decoder: OneSense Agriculture – UC9

Temperature -50 °C ... +125 °C. Accuracy ± 0,5 °C (-10 °C ... 85 °C).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC9

sales@evvos.com



ONESENSE AGRICULTURE- UC16

Water meter, 4/6-depths AquaCheck probe and TEROS 12 sensor – volumetric water content, soil temperature, electrical conductivity, flow/water meter with pulse output (not included).

CIS Message Decoder: OneSense Agriculture – UC16

TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C. ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy ±5%.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC16

sales@evvos.com



ONESENSE AGRICULTURE- UC17

Relative humidity and temperature, self-emptying, tipping bucket rain gauge and 4/6-depths AquaCheck probe

CIS Message Decoder: OneSense Agriculture – UC17

Rainfall calibration 0.2 mm. Humidity accuracy at 25 °C ±3% RH, temperature accuracy ±1,0 °C.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC17

sales@evvos.com



ONESENSE AGRICULTURE- UC18

Relative humidity and temperature, self-emptying, tipping bucket rain gauge and leaf wetness.

CIS Message Decoder: OneSense Agriculture – UC18

Rainfall calibration 0.2 mm. Humidity accuracy at 25 °C ±3% RH, temperature accuracy ±1,0 °C. Leaf wetness sensor settling time 10ms.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

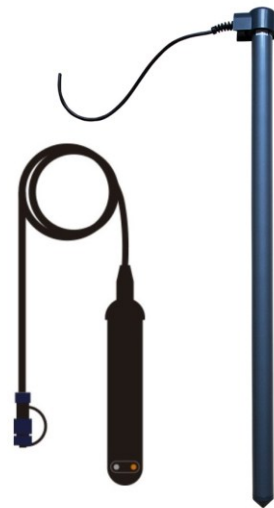
1-year CIS subscription

Product code: BA-OSAURX-LI2-UC18

sales@evvos.com



Nitrate and Potassium



ONESENSE AGRICULTURE- UC19

Self-emptying, tipping bucket rain gauge, 4/6-depths AquaCheck probe and Nutrisens' nitrate and potassium sensor.

CIS Message Decoder: OneSense Agriculture – UC19

Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC19

sales@evvos.com



ONESENSE AGRICULTURE- UC20

Relative humidity and temperature, self-emptying, tipping bucket rain gauge and Apogee SI-4H1 IR thermometer

CIS Message Decoder: OneSense Agriculture – UC20

Rainfall calibration 0.2 mm. Humidity accuracy at 25 °C ±3% RH, temperature accuracy ±1,0 °C. IR thermometer spectral range 8 to 14 μm. Long-term drift <2%. Calibration uncertainty 0,2 °C (-20 °C ... +60 °C).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC20

sales@evvos.com



+ Pulse counter / Flow meter



ONESENSE AGRICULTURE- UC22

Air or soil temperature, pulse counter or flow meter and on/off state or door open/closed.

CIS Message Decoder: OneSense Agriculture – UC22

Temperature -50 °C ... +125 °C. Accuracy ± 0,5 °C (-10 °C ... 85 °C).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC22

sales@evvos.com



3 x TEROS 12 Probes
Volumetric water content,
Soil temperature,
Electrical conductivity



ONESENSE AGRICULTURE- UC24

3 x TEROS 12 sensors – volumetric water content, soil temperature, electrical conductivity.

CIS Message Decoder: OneSense Agriculture – UC24

TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C. ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy ±5%.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC24

sales@evvos.com



2 x EC-5 Soil Moisture Sensors
Volumetric water content



ONESENSE AGRICULTURE- UC25

Self-emptying, tipping bucket rain gauge and 2 x EC-5 sensors (volumetric water content)

CIS Message Decoder: OneSense Agriculture – UC25

Rainfall calibration 0.2 mm. EC-5 VWC range - 0%–100%, resolution - 0.001 m³/m³ VWC in mineral soils, 0.25% in growing media.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

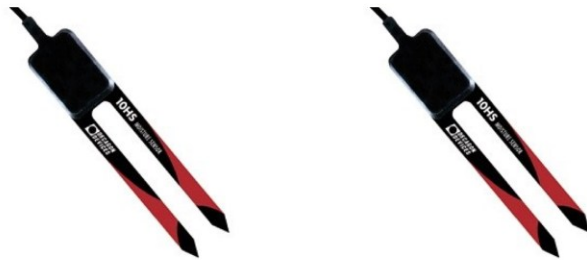
1-year CIS subscription

Product code: BA-OSAURX-LI2-UC25

sales@evvos.com



2 x 10HS Soil Moisture Sensors
Volumetric water content



ONESENSE AGRICULTURE- UC25A

Self-emptying, tipping bucket rain gauge and 2 x 10HS sensors (volumetric water content)

CIS Message Decoder: OneSense Agriculture – UC25A

Rainfall calibration 0.2 mm. 10HS VWC range - 0–0.57 m³/m³ (0%–57% VWC), resolution - 0.0008 m³/m³ (0.08% VWC) in mineral soils from 0–0.50 m³/m³ (0%–50% VWC).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC25A

sales@evvos.com



ONESENSE AGRICULTURE- UC26

Self-emptying, tipping bucket rain gauge, IR thermometer and leaf wetness sensor.

CIS Message Decoder: OneSense Agriculture – UC26

Rainfall calibration 0.2 mm. IR thermometer temperature range -50 to 1,030°C. Spectral range: 8 to 14 μm. Leaf wetness sensor settling time 10ms.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC26

sales@evvos.com



ONESENSE AGRICULTURE- UC27

Relative humidity and temperature, self-emptying, tipping bucket rain gauge and TEROS 12 sensor (volumetric water content, soil temperature, electrical conductivity).

CIS Message Decoder: OneSense Agriculture – UC27

Rainfall calibration 0.2 mm. Humidity accuracy at 25 °C ±3% RH, temperature accuracy ±1,0 °C. TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C. ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy ±5%.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC27

sales@evvos.com



ONESENSE AGRICULTURE- UC28

TEROS-21 soil water potential sensor and 4/6-depths AquaCheck probe (4/6 soil moisture and 4/6 soil temperature sensors).

CIS Message Decoder: OneSense Agriculture – UC28

TEROS-21 – excellent range (sensitivity from -9 kPa all the way to air dry [-100,000 kPa])

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-UC28

sales@evvos.com



ONESENSE AGRICULTURE-AMSA-UC1

Bud and leaf temperature sensor.

CIS Message Decoder: Evvos Analog and Mixed-Signal Interface

Operating environment -50 to 70 C; 0 to 100 % relative humidity. Measurement uncertainty - 0.1 C (from 0 to 70 C), 0.2 C (from -25 to 0 C), 0.4 (from -50 to -25 C).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-AMSAUC1

sales@evvos.com



ONESENSE AGRICULTURE- 2UC1

Relative humidity and temperature, self-emptying, tipping bucket rain gauge, 2 x soil moisture sensors (volumetric water content, soil temperature).

CIS Message Decoder: OneSense Agriculture 2 – UC1

Rainfall calibration 0.2 mm. Humidity accuracy at 25 °C ±3% RH, temperature accuracy ±1,0 °C. Soil moisture ± 3% (VWC) in mineral soils with moderate salinity from 0 to 50% VWC. Soil temperature Typical ± 0.2°C, max. ± 0.4°C, over the full range.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC1

sales@evvos.com



ONESENSE AGRICULTURE- 2UC2

Self-emptying, tipping bucket rain gauge, 3 x soil moisture sensors (volumetric water content, soil temperature).

CIS Message Decoder: OneSense Agriculture 2 – UC2

Rainfall calibration 0.2 mm. Soil moisture $\pm 3\%$ (VWC) in mineral soils with moderate salinity from 0 to 50% VWC. Soil temperature Typical $\pm 0.2^\circ\text{C}$, max. $\pm 0.4^\circ\text{C}$, over the full range.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC2

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ONESENSE AGRICULTURE- 2UC5

ES-2 – water electrical Conductivity and temperature,
 TEROS 12 – volumetric water content, soil temperature, soil electrical conductivity, flow/water meter with pulse output (not included).

CIS Message Decoder: OneSense Agriculture 2 – UC5

ES-2 water temperature - range -40 to 60 °C, resolution 0.1 °C, accuracy: ±1 °C,
 bulk EC - range 0 to 120 dS/m, resolution 0.001 dS/m, accuracy ±0.01 dS/m or ±10% (whichever is greater), TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C.
 ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy ±5%.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC5

sales@evvos.com



ONESENSE AGRICULTURE- 2UC6

ES-2 – water electrical Conductivity and temperature, flow/water meter with pulse output (not included).

CIS Message Decoder: OneSense Agriculture 2 – UC6

ES-2 water temperature - range -40 to 60 °C, resolution 0.1 °C, accuracy: ±1 °C, bulk EC - range 0 to 120 dS/m, resolution 0.001 dS/m, accuracy ±0.01 dS/m or ±10% (whichever is greater).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC6

sales@evvos.com



ONESENSE AGRICULTURE- 2UC7

ES-2 – water electrical Conductivity and temperature,
 TEROS 12 – volumetric water content, soil temperature, soil electrical conductivity, flow/water meter with pulse output (not included).

CIS Message Decoder: OneSense Agriculture 2 – UC7

ES-2 water temperature - range -40 to 60 °C, resolution 0.1 °C, accuracy: ±1 °C, bulk EC - range 0 to 120 dS/m, resolution 0.001 dS/m, accuracy ±0.01 dS/m or ±10% (whichever is greater), TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C. ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy ±5%, TEROS 10 – VWC, resolution 0.001 m³/m³.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC7

sales@evvos.com



ONESENSE AGRICULTURE- 2UC8

Self-emptying, tipping bucket rain gauge, 3 x 10HS soil moisture sensors (volumetric water content, soil temperature).

CIS Message Decoder: OneSense Agriculture 2 – UC8

Rainfall calibration 0.2 mm. Humidity accuracy at 25 °C ±3% RH, temperature accuracy ±1,0 °C. 10HS VWC range - 0–0.57 m³/m³ (0%–57% VWC), resolution - 0.0008 m³/m³ (0.08% VWC) in mineral soils from 0–0.50 m³/m³ (0%–50% VWC).

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

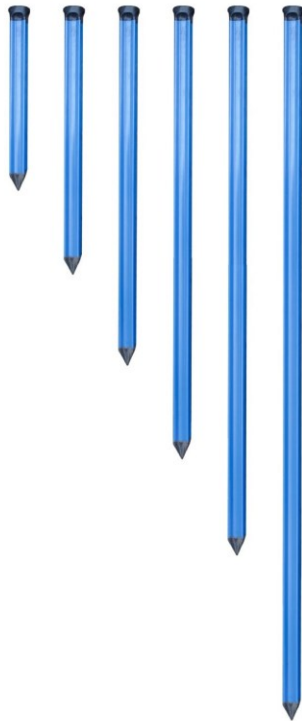
External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC8

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ONESENSE AGRICULTURE- 2UC10

GroPoint Profile 2/3/4/5/6/8 segments – soil profiling solution

CIS Message Decoder: OneSense Agriculture 2 – UC10

GroPoint Profile – Soil moisture measurement range - 0% to 100% of VMC, accuracy - $\pm 2.0\%$, precision - $< 0.2\%$. Soil temperature measurement range -20°C to +70°C (-4°F to 158°F), accuracy - $\pm 0.5^\circ$.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC10

sales@evvos.com



ONESENSE AGRICULTURE- 2UC11/12/13

GroPoint Profile 2/3/4/5/6/8 segments – soil profiling solution

CIS Message Decoder: OneSense Agriculture 2 – UC11 / UC12 / UC13

GroPoint Profile – Soil moisture measurement range - 0% to 100% of VMC, accuracy - $\pm 2.0\%$, precision - $< 0.2\%$. Soil temperature measurement range -20°C to +70°C (-4°F to 158°F), accuracy - $\pm 0.5^\circ$, ambient temperature -50 °C ... +125 °C. Accuracy $\pm 0,5^\circ$ C (-10 °C ... 85 °C). Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC11/12/13

sales@evvos.com



ONESENSE AGRICULTURE- 2UC14

GroPoint Profile 2/3/4/5 segments – soil profiling solution, water/flow meter, TEROS 12 – volumetric water content, soil temperature, soil electrical conductivity, flow/water meter with pulse output (not included).

CIS Message Decoder: OneSense Agriculture 2 – UC14

GroPoint Profile – Soil moisture measurement range - 0% to 100% of VMC, accuracy - $\pm 2.0\%$, precision - $< 0.2\%$. Soil temperature measurement range -20°C to +70°C (-4°F to 158°F), accuracy - $\pm 0.5^\circ$, tipping bucket rain gauge - resolution 0,10mm (0,20mm, 0,25mm and 0,5mm available upon request – contact sales@evvos.com), ambient temperature -50 °C ... +125 °C. Accuracy $\pm 0,5$ °C (-10 °C ... 85 °C), TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ± 1 °C. ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy $\pm 5\%$.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure	External battery pack (optional)
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1-year Sigfox Connectivity (optional)	1-year CIS subscription
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Product code: BA-OSAXRX-LI2-2UC14

sales@evvos.com



ONESENSE AGRICULTURE- 2UC15

GroPoint Profile 2/3/4/5 segments – soil profiling solution, water/flow meter, Relative humidity and temperature, self-emptying, tipping bucket rain gauge and TEROS 12 sensor (volumetric water content, soil temperature, electrical conductivity).

CIS Message Decoder: OneSense Agriculture 2 – UC15

GroPoint Profile – Soil moisture measurement range - 0% to 100% of VMC, accuracy - $\pm 2.0\%$, precision - $< 0.2\%$. Soil temperature measurement range -20°C to +70°C (-4°F to 158°F), accuracy - $\pm 0.5^\circ$, Humidity accuracy at 25 °C $\pm 3\%$ RH, temperature accuracy ± 1.0 °C. Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC15

sales@evvos.com



Nitrate and Potassium

ONESENSE AGRICULTURE- 2UC16

GroPoint Profile 2/3/4/5 segments – soil profiling solution, water/flow meter, tipping bucket rain gauge Nutrisens’ nitrate and potassium sensor.

CIS Message Decoder: OneSense Agriculture 2 – UC16

GroPoint Profile – Soil moisture measurement range - 0% to 100% of VMC, accuracy - $\pm 2.0\%$, precision - $< 0.2\%$. Soil temperature measurement range -20°C to +70°C (-4°F to 158°F), accuracy - $\pm 0.5^\circ$. Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAXRX-LI2-2UC16

sales@evvos.com



ONESENSE AGRICULTURE- 2UC17

HYDROS-21 – water depth, water electrical conductivity, water temperature, flow/water meter with pulse output (not included).

CIS Message Decoder: OneSense Agriculture 2 - UC17

HYDROS-21 – range - water depth: 0 to 1,000 cm, electrical conductivity: 0 to 120 dS/m, temperature: -11 to 49 °C, do not expose to freezing temperatures if sensor is in water

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAURX-LI2-2UC17

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ONESENSE AGRICULTURE- 2UC18

2 x Load Cells, TEROS 12 – VWC, soil temperature, and soil conductivity, and rain gauge.

CIS Message Decoder: OneSense Agriculture 2 - UC18

TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C. ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy ±5%, TEROS 10 – VWC, resolution 0.001 m³/m³. Load Cells require Evvos’ bridge amplifier. Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAXRX-LI2-2UC18

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ONESENSE AGRICULTURE- 2UC19

4 x Load Cells

CIS Message Decoder: OneSense Agriculture 2 - UC19

Load Cells require Evvos' bridge amplifier. Rainfall calibration 0.2 mm.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAX-RX-LI2-2UC19

sales@evvos.com



ONESENSE AGRICULTURE- 2UC20

TEROS 11 – VWC, soil temperature, flow/water meter with pulse output (not included).

CIS Message Decoder: OneSense Agriculture 2 – UC20

TEROS 12 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C. ECb range - 0–10 dS/m (bulk), resolution 0.001 dS/m, accuracy ±5%, TEROS 10 – VWC, resolution 0.001 m³/m³.

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAXRX-LI2-2UC20

sales@evvos.com



ONESENSE AGRICULTURE- 2UC21

TEROS 12 – VWC, soil temperature, and soil conductivity, TEROS-21 soil water potential and rain gauge.

CIS Message Decoder: OneSense Agriculture 2 – UC21

TEROS 11 VWC mineral soil calibration - 0.00–0.70 m³/m³, resolution - 0.001 m³/m³. Temperature resolution 0,1 °C, accuracy ±1 °C, accuracy ±1°C from -40 to 0°C, ±0.5°C from 0 to 60°C. TEROS-21 – excellent range (sensitivity from -9 kPa all the way to air dry [-100,000 kPa])

Cost-effective and easy to install, operate and maintain

Optional solar panel for extended battery life

GNSS – GPS/GLONASS/Galileo/QZSS location capabilities (optional)

Data transmitter - IP-66 Enclosure

External battery pack (optional)

1-year Sigfox Connectivity (optional)

1-year CIS subscription

Product code: BA-OSAX-LI2-2UC21

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OTHER SENOSRS AND ACCESSORIES



All-in-one Weather Station



Leaf Wetness



TEROS 12



VWC, °C



10 HS



EC-5



Wind Speed & Direction



Solar Radiation Shield



Submersible Pressure Transducer



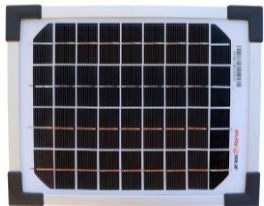
Rain Gauge



Multiple Depths VWC, °C



Relative Humidity %, °C, hPa



Solar Panel



Li-Ion 18650 Batteries



Lithium Battery



OneSense Mounting Bracket



Accessories & Replacement Parts

WIRELESS SENSOR DATA TRANSMITTERS – ONSESENSE PRODUCT LINE



OneSense Pulse

- 3 x Pulse Inputs
- 2 x 0-5V logic level compatible inputs
- 1 x 0-5V input user-configurable, dry contact or logic level compatible
- Selectable high-speed hardware counter with hysteresis input
- Selectable low-power digitally filtered software counter



OneSense Pulse and Current

- 1 x Pulse Input, 2nd Pulse Input (optional)
- 2 x 0-24mA analog inputs
- Buffered analog inputs
- 12-bit resolution, 16-bit resolution - optional
- Low-pass digital filtering
- Internal automatic self-calibration and self-compensation routines



OneSense Pulse and Voltage

- 1 x Pulse Input, 2nd Pulse Input (optional)
- 2 x 0-10V analog inputs
- Buffered analog inputs
- 12-bit resolution, 16-bit resolution - optional
- Low-pass digital filtering
- Internal automatic self-calibration and self-compensation routines
- Auxiliary low-voltage channel



OneSense Pulse and Temperature

- 1 x Pulse Input, 2nd Pulse Input (optional)
- High-precision: industrial Pt100 or Pt1000
- Any thermocouple class (user selectable)
- Low-power digital: multiple 1-wireTM temperature sensor



OneSense Environment and Agriculture

- Variety of applications in agriculture and environmental monitoring
- Irrigation
- Greenhouses
- Weather monitoring
- Water/liquid level monitoring
- SDI-12, I2C, Voltage (0-5V), Pulse, 1-wire

Note: Please note that Li-Ion and Lithium batteries are considered hazardous goods and we cannot ship them outside Europe.

Radio zones

- R1 – Europe, Iran, Kenya, Oman, South Africa, Tunisia, United Arab Emirates
- R2 – USA, Mexico, Brazil
- R3 – Japan
- R4 – Argentina, Australia, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Hong Kong, Malaysia, New Zealand, Panama, Singapore, Taiwan, Thailand