

## EMOS 200LH – Solar-powered Outdoor Sensor with robust enclosure and connectors

**EMOS 200LH enables energy autarkic operation and radio communication inside with robust enclosure and connectors. Via its Generic Sensor interface many different sensor types can be connected. EMOS 200LH is powered via its internal solar cell.**

EMOS 200 LH is provided with very robust outdoor enclosure with operation of typical minimum 10 years in raw outdoor conditions. Housing consists of solid aluminium and connectors are made of laminated brass.

Its internal solar cell and energy management with storage provides power for the internal radio system and peripherals like sensors. Long dark time (no/ limited sun) periods of several weeks to months possible.

EMOS 200LH uses the ultra-narrow band technology to transmit gathered Sensor data. Radio mechanism and enables transmission ranges of 5 km and more.

Via the Generic Sensor interface (mechanically M 16) many different sensors can be connected.



Sensors are automatically detected on connection, no further in field configuration is required.

Typical operation of EMOS 200LH

- Wake up from deep sleep
- Detect changes in sensor configuration (if any)
- Measure values on connected sensors
- Transmit measured values
- Return to deep sleep mode

TYPE  
**EMOS 200LH**

ORDERING CODE  
**S3061-0201**

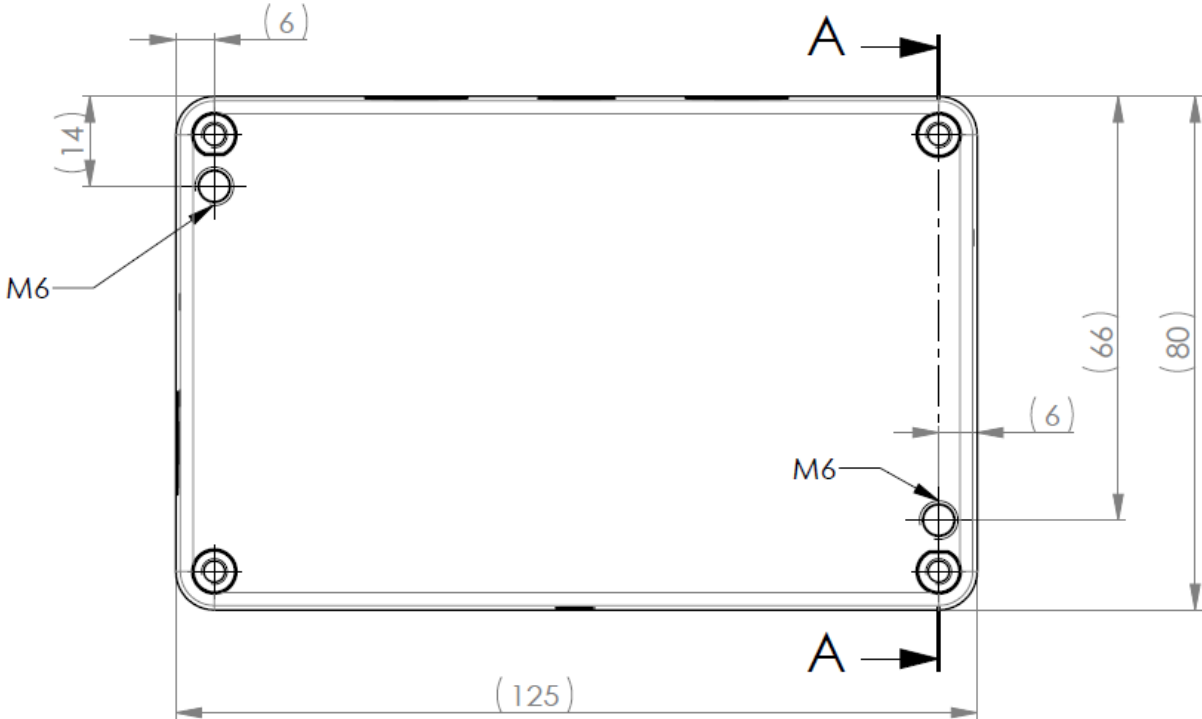
EMOS 200LH radio signal can be received with any EMOT 100L or EMOT 200LH.

EMOS 200LH includes the EMOS 200L module.

### Features overview

|                                      |  |
|--------------------------------------|--|
| <b>Antenna</b>                       | External waterproof, SMA connector   |
| <b>Radio Standard</b>                | Sub 1 GHz Ultra Narrow band  |
| <b>Radio Range</b>                   | Typ. 5 km  |
| <b>Enclosure</b>                     | IP 66, IP 67, high durable, with pressure compensation element   |
| <b>Sensor Ports</b>                  | 2 x M16 (10 pins)  |
| <b>Host Connector</b>                | 1 x M16 (12 + 3 pins)  |
| <b>Transmit Power (typ, at 25°C)</b> | +13 dBm  |
| <b>Power Supply</b>                  | Internal solar cell  |
| <b>Available Sensors</b>             | Temperature Humidity, Light Intensity, Soil temperature, Soil Humidity, Occupancy, Ultrasonic and others |
| <b>Complete Dark time operation</b>  | Up to 3 weeks  |
| <b>Sensor power supply</b>           | 2,5V - 3,6 V or stable with ext. DC/DC convertor   |
| <b>Energy available (one meas.)</b>  | Up to 12 mAs   |
| <b>Operating Temperature</b>         | -20°C ... 60°C   |

**Product Drawing (Backside)**



**Product Drawing**

