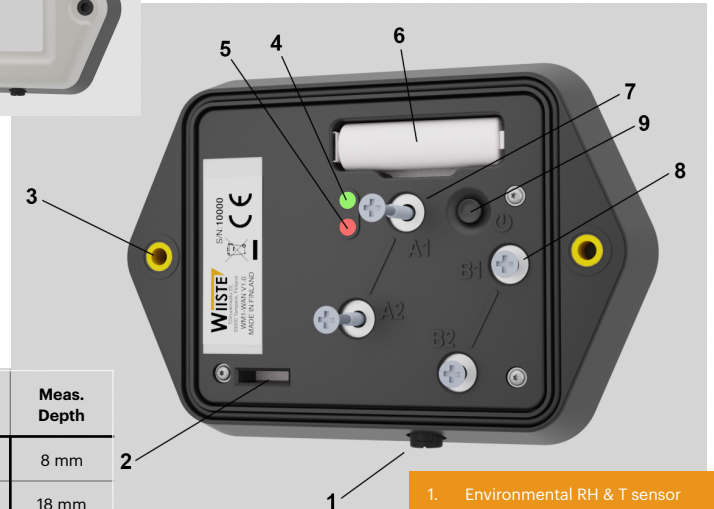


The WM1-WAN sensor is intended for installation on the surfaces of wooden structures, to measure the moisture content of wood and the environmental humidity and temperature. The device automatically sends measurement data to an internet cloud service.

The length of the electrodes can be selected to meet the desired measurement depth. The standard measurement depth can vary between 8 to 48mm (see the table below). This enables measurement of the cross-sectional moisture distribution of the structure. The device only operates correctly with the electrode-screws provided by Wiiste Oy.

The WM1-WAN sales package includes a wood moisture sensor, a battery, user manual and three pairs of default electrodes: 2x 30mm, 2x 50mm and 2x 70mm

The device has a programmable measurement cycle with a default value of 1 hour. It begins automatic measurement immediately after startup, upon connection to a LoRa-network. The device will not perform measurements if the network connection is not accessible.

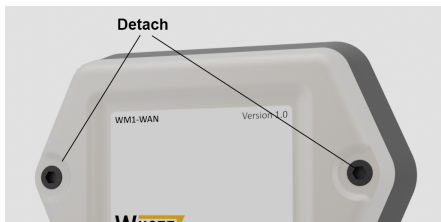


Electrode Length	Meas. Depth
30 mm	8 mm
40 mm	18 mm
50 mm	28 mm
60 mm	38 mm
70 mm	48 mm

Table – Standard screw length versus measurement depth.
For custom length electrodes contact Wiiste Oy

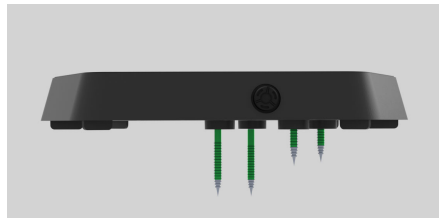
1. Environmental RH & T sensor
2. Service port
3. Socket for cover
4. Led indicator for operation
5. Led indicator for error
6. Battery
7. Pair A measurement electrodes
8. Pair B measurement electrodes

1. Top Cover



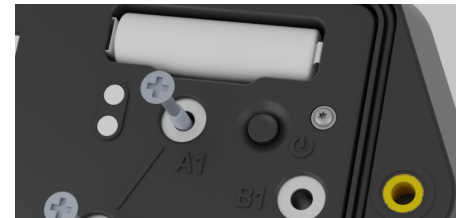
- Remove protective cover to access measurement electrode contacts and user interface
- Unscrew hex bolts (3) using 5 mm tip
- Re-attach the protective cover after installing the device.

2. Electrode Connection



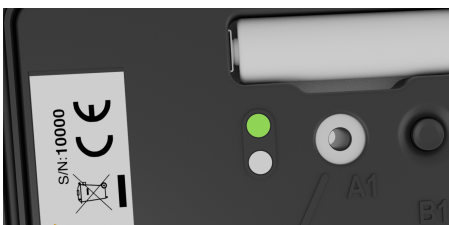
- There are two pairs of holes for electrodes under the cover
 - A1-A2 for longer electrodes (7) *)
 - B1-B2 for surface electrodes (8)
- Screw the electrodes firmly to make contact but be aware not to overtighten them.

3. Device Operation



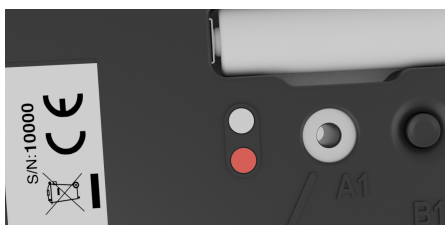
- To start and shutdown the device: Press button (9) for 3s to turn device ON or OFF
- short press (<1sec) during stand-by will restart the measurement cycle

4. Green Status Led



- Blinking 0.5s cycle - measurement in progress
- Blinking 2s cycle - joining to network
- Blinking 10s cycle - standby between measurements

5. Red Error Led



- Blinking 0.5s cycle- Network parameter error, consult device provider
- Blinking 2s cycle - Measurement error, check electrode installation
- Blinking 10s cycle - low battery warning

6. Cloud Service



- The relia.wiiste.com cloud service should be used to view measurement data.
- See the web page or contact info@wiiste.com for further details

*) For measurement depths of more than 50mm, the user is advised to predrill an installation hole (d=6mm) for the electrode screw. The depth of the installation hole should be 40mm less than the measurement depth.