



Aistin Envi —
monitoring environment
Monitor humidity and temperature on site



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Aistin Envi accurately measures the humidity and temperature with its probe, while blending smoothly to the environment around it. The design is modern, elegant, functional - **energy-efficient, completely wireless and ready with software**. We believe devices should be pleasant and easy to use.

The Device

Monitoring environment

Elegant & Functional: Our Aistin Design casing seals in all the sensors – humidity (probe), air temperature (probe) and orientation, making the device robust and waterproof.

Energy-efficient: Smart power control enables longer than usual operating times, by default over 5 years with single set of batteries.

Modern and completely wireless: Members of the Aistin family never require a separate gateway. The device is connected to the internet via 4G-NB-IoT.



Why Aistin

Modern, elegant, functional

- Independent and Maintenance Free
- Completely Wireless — Over-the-air updates and Device Management
- Plug-and-Play – Functional, ready with software, ready to use
- Shock- and Waterproof, Robust*

Example Use Cases

Measure environmental conditions even in tough environments

- Container temperature and humidity
- Inside temperature and humidity
- Fluctuations in temperature and humidity
- Predictive alerts forwarded in case alert threshold is approaching or exceeded

iProtoxi Custom

All of our products and services can be tailored to connect to other cloud services and API interfaces or include additional features. For any tailoring related questions, please consult our sales at sales@iprotoxi.fi

TECHNICAL SPECIFICATION

Device Settings

Aistin Envi is configurable **remotely over-the-air**. With **IoThund Cloud** web and mobile apps, all of the devices can be updated, configured, and managed at bulk or one at a time.

Inside the Casing

- ❑ **Radio Connectivity:** 4G-Cat M1 & NB-IoT
 - NFC 13.56 MHz
- ❑ **Dimensions:** 90 x 90 x 28,5 mm
 - IP67 casing
 - Weight 180 g
- ❑ **Operating temperature:**
 - -25 to +60 °C
 - -40 to 85 °C with reduced accuracy
- ❑ **Powering:** 1 x 3,6 V C Primary battery
- ❑ **Battery lifetime:**
 - Over 5 years: 12 measurements / day
 - Battery lifetime is dependent on used features like positioning*
- ❑ **NTC Temperature (Device Temperature)**
 - By default, the NTC is installed inside the casing, but may be fit into the casing seam to react quicker to changes in outer temperature.
 - Range from -40 to +125 °C
 - Accuracy ± 1 °C
- ❑ **Device Orientation:** 360°

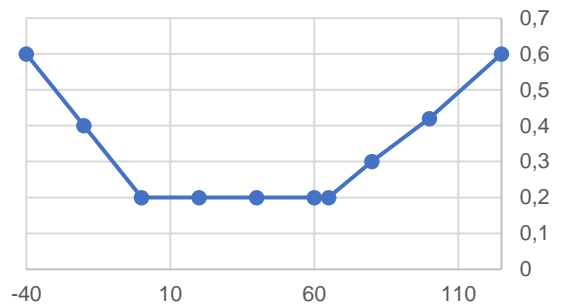
Positioning

- ❑ **IoTrack (NB-IoT):**
 - Cellular positioning
 - Accuracy up to few 100 meters
- ❑ **Optional:** GPS/(GNSS)

Probe

- ❑ **Humidity:**
 - Accuracy of ± 1.5 %RH and ± 0.1 °C
 - Resolution 0.01 %RH
 - Hysteresis at 25°C ± 0.8 %RH
- ❑ **Air Temperature:**
 - Range from -40 to +125 °C
 - Accuracy (see the diagram below)

Temperature accuracy \pm Celsius



Device Management

- ❑ **Measurement and Alarming Functions**
- ❑ **Complete Device Management and Firmware Updates:** Over-the-air via IoThund Cloud

Product Code

- ❑ **Order Numbers**
 - With SIM card 20011
 - No SIM card 20012