

BTW-HT311-A

Industrial automation
TWIBL HT series



WIRELESS TEMPERATURE MEASUREMENT FOR INDUSTRIAL ENVIRONMENTS

The BTW-HT311-A series has been developed to work in harsh environments, where other wireless probes cannot function.

Made of certified **food compatible** material, this product can be used in many different stages of food production, from cooking to storage in cold rooms. It implements a mesh radio technology that covers long distances, even in case of obstacles, without having to bring cables to the access points, all while having a long-lasting battery life.

Every device can detect up to **four temperatures** simultaneously, thanks to the digital sensors in the needle.

ATC System

Automatic detection of the core temperature of the product. Thanks to the placement of sensors through the needle, the device recognizes the coldest point, minimizing the errors that may occur while placing the device into the product.

Core and room temperature measurement at the same time

The way sensors are placed in the needle and at its base allows to detect room temperature and the core temperature of products at the same time, with only one device.

Integration in the plant's monitoring system

The monitoring software of the probes allows their integration in the production plant: this means that our probes can be used both for verifying processes and monitoring of the plant itself.

PROS

- **Harsh environments:** these probes can withstand temperatures from -25°C to +125°C (-13°F to +257°F), with an IP68 rating;
- **Precision:** accuracy of 0,05°C (32,09°F) and precision until 0,1°C (32,18°F);
- **Wireless:** this system works well with automated processes. Compared to traditional systems, our BTW-HT311-A probe is able to follow the product all through the productive process, ensuring an accurate monitoring in every phase;
- **Reliability:** data logging and real-time detection. Thanks to the internal datalogger, no data is lost, even in areas that cannot be covered by the wireless network. Data migration from the datalogger to the monitoring software is automatic;
- **Safety:** data is protected with a high-grade encryption;
- **Long lasting:** more than 6 months with a 10-seconds data transmission; more than 1 year in normal use conditions;
- **Easy to use:** data transmission from the probe to the software is completely automatic;
- **Minimal maintenance:** the only maintenance consists in a periodic battery substitution when needed.

TECHNICAL DATASHEET

Up to 4 temperature sensors inside the needle

Real time monitoring

Continuous data logging (on request)

Accuracy of 0,05°C (32,09°F)

Precision: $\pm 0.1^{\circ}\text{C}$ from -20°C to $+50^{\circ}\text{C}$

$\pm 0.15^{\circ}\text{C}$ from -40°C to $+70^{\circ}\text{C}$

$\pm 0.2^{\circ}\text{C}$ from -40°C to $+100^{\circ}\text{C}$

$\pm 0.25^{\circ}\text{C}$ from -55°C to $+125^{\circ}\text{C}$

Work temperature from -25°C to $+125^{\circ}\text{C}$ (-13°F to $+257^{\circ}\text{F}$)

IP68B rating

2.4Ghz radio frequency

ATC system for automatic core temperature detection

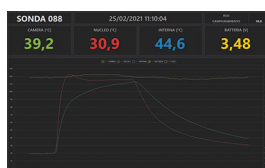
Real time recording without the need to manually download data

Industrial use with real time data export through ModbusTcp protocol

IOT ready with MQTT protocol

16cm needle length and 4mm thickness (other sizes available)

ACCESSORIES



BTW-Client

Client for BTW wireless probes visualization



BTW-GW

Industrial hardware gateway with DIN rail support
Ethernet and Wi-Fi connection
ModbusTcp and MQTT protocol
Web interface



BTW-RP

Repeater/range extender with DIN rail support



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