

# Temperature Sensor

## Gen 2, with logging capabilities

With the second-generation Wireless Temperature Sensor and Logger, Disruptive Technologies is setting a new standard for energy-efficient temperature measurements. The sensor is capable of delivering more than 15 million data points while achieving the same 15-year battery life as the previous generation temperature sensor. That is 30 times more data points, in the same form factor and size. With the increased sample rate and accumulated data points, this sensor was created with machine learning (ML) applications in mind.



### HOW IT WORKS

The new temperature sensor has three distinct software configurable modes:

**Sampling** - the sensor will measure the temperature and transmit the value to the Cloud at a fixed interval (heartbeat).

**Logging** - the sensor measures temperature at a user-configurable interval down to 30 seconds, stores the data on-device and transmits a collection of data points to the cloud at a fixed interval.

**Triggering** - the sensor will only send a message once the temperature reading has exceeded, or gone below, a user-configurable temperature limit.

With the new software configurable logging and triggering capabilities, this becomes the most versatile wireless sensor in DTs product lineup.

### SENSOR ENCRYPTION & INTEGRATION

The logging interval can be configured from 30 seconds to 15 minutes. End-to-end encryption provides top-tier security of your data. Easily integrate with other systems and services to enable powerful analytics, triggers and dashboards.

### SENSOR SPECIFICATIONS

#### Operating Conditions

Temperature range

-40 to 85 °C / -40 to 185 °F

Humidity at 25 °C / 77 °F

0 to 100% relative humidity

#### Wireless Communication

EU: 868 MHz SRD/ISM band, SecureDataShot™

US: 915 MHz, SecureDataShot™

#### Certifications and Compliance

EU: CE, WEEE, Batteries directive

US: Certified to FCC and ISED regulations

FCC ID: 2ATFX-100541

IC: 25087-100541

#### Other

**Size and weight:** 19 x 19 x 2.5 mm, 2.0 g

**Lifetime:** Up to 15 years in the default config.

**Range:** 25 m indoor, 1000 m unobstructed

**Construction:** Robust design, sealed, IP68 and UL 50E Type 4X.

Designed in Norway. Manufactured in Germany.

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