

Real-Time Temperature Monitoring System for Hay



HAYTECH is the most efficient tool to monitor the temperature of your hay remotely and effortlessly all year long and avoid dramatic losses caused by hay fire. Additionally, HAYTECH is a powerful tool to manage the use of your fodder by knowing the quality of your hay. HAYTECH 10 is a full monitoring system including 10 wireless temperature probes.

Key Features

- Alert SMS messages
- Real time temperature monitoring
- Hay quality tracing
- Durable, weatherproof
- Bright color
- Configurable alert levels
- Temperature history
- Bale locator editor
- Easy installation
- Maintenance free

Secure your assets

HAYTECH is watching over your hay for you. You will receive alert messages to your phone if temperatures rise to unsafe levels. You can check the temperature of your hay whenever you want through the Quanturi online service.

Be more productive

Save time and reduce accident risks by avoiding the tedious and dangerous manual measuring. The system is maintenance free with battery powered probes, lasting at least two years under normal working conditions.

Maximize profits

Rising temperatures can have catastrophic effects on hay quality, but with HAYTECH you can always be sure you are selling top quality hay and reduce the likelihood of product damage. Monitor the hay quality via the temperature history.

Easy installation

Install in three easy steps:
1- Register your set, 2- Insert probes to bales and 3- Turn on the base station and log in to your account. Monitor your hay easily and be alerted in case of dangers.

Sensor Probe



- Bright color and labeled probes are easily visible in the storage
- Durable - Reuse from season to season: the probes have a long life time, which can be extended by exchangeable batteries.
- Used in both round and square hay bales.
- Easy to Handle.

Temperature range	0°C to+100 °C
Temperature accuracy	1 °C
Temperature resolution	± 0.2 °C
Current consumption	≤ 10 µA in idle mode ≤ 1 mA in transmit mode
Identification of the probe (probe ID)	6 figures max Specific configuration possible
Measurement frequency	1 measure every hour
Radio frequency	433,5 MHz
RF Standard	ETSI EN 300 220-1
Reading distance in free space	200 m
Battery	Lithium battery, 3,6 V ; 2,2 Ah
Lifetime	Lifetime 2 to 3 years at room temperature
Battery replacement	from Quanturi
Dimensions	60 x 60 x 405 mm
Weight	110 g
Reference	QNT200-00
GTIN -13	6430065610298

The HAYTECH 10 System contains a Base station, a Relay, 10 Temperature probes and the Quanturi visualisation Service.

Additional probes can be purchased in packs of 10 and added to the system, even at a later point in time.

Base station



- The Base Station receives the measurement data from the Relay and sends it every hour to the *Quanturi.app* service.
- The base station is wirelessly connected with the sensors.
- In case of overheating, measurements will be passed immediately so that warning and alert messages can be dispatched with no delay.

Usage	-25 to +85 °C
RF frequency	433,5 MHz
Internet connection	Ethernet
RF Standards	ETSI EN 300 220-1
Dimensions	92 x 30 x 270 mm
Weight	220g
Power supply	220 V
Use	Indoors
Reference	QNT300-10
GTIN -13	6430065610168

Relay



- HAYTECH Relay is placed in between the base station and the sensors. It duplicates the maximum distance to the sensors.
- Several Relays can be installed to cover several storage areas around the farm.

Usage	-25 to +85 °C
RF frequency	433,5 MHz
RF Standard	ETSI EN 300 220-1
Dimensions	305 x 36 x 23 mm
Weight	480 g
Power supply	220 V
Enclosure	IP44
Power plug	IP44
Reference	QNT301-00
GTIN -13	6430065610205

Quanturi.app is the service application for visualizing the sensor temperatures and for customizing your account settings. The application is available in web address: <https://quanturi.app>.

Features

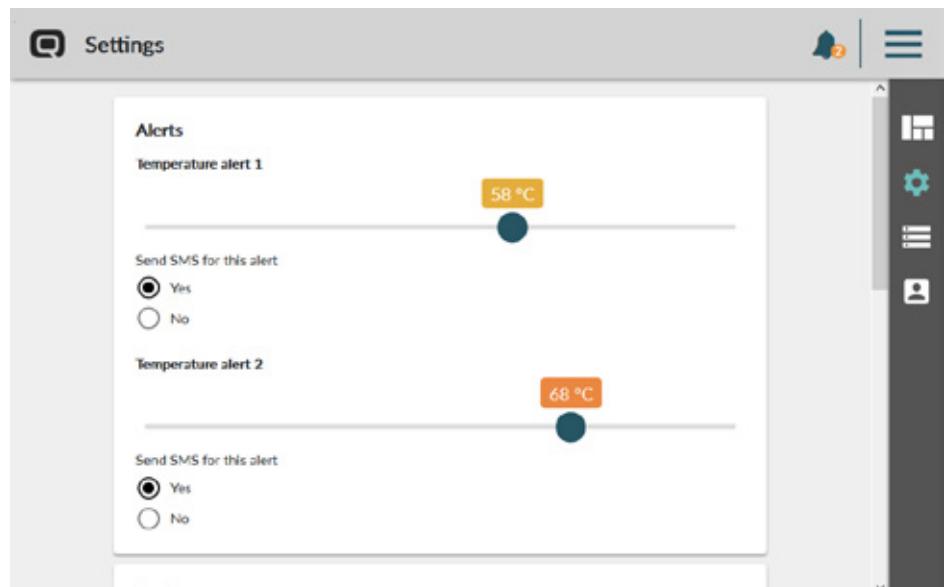
Dashboard

See all the sensors on one glance. Hottest sensors are displayed on top.



Adjustable alert levels

Customize the temperature limits for dispatching the warning and alert messages.



Tracking your hay in *quanturi.app* gives you more clarity and accountability so you can make great quality hay and prevent fires. To get the best results you need the power of Quanturi business features.

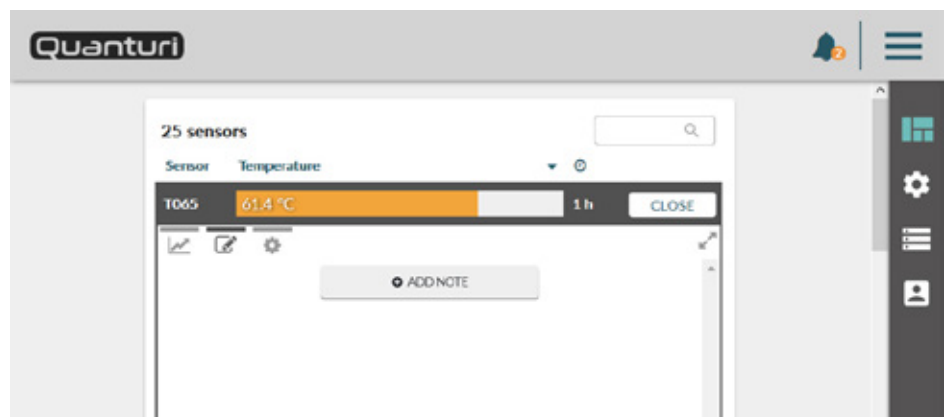
Temperature history

View the measurement data in a graph. It's important to know the history of the hay you Produce to regulate and proof quality



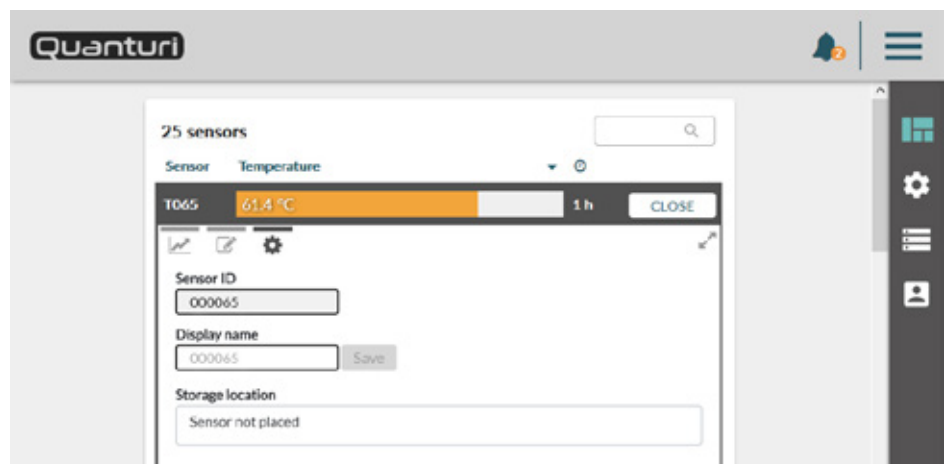
Sensor Notes

The notes area adds clarity to your data. This is a convenient place to make remarks on your activities, for example, when the hay was harvested, type of hay, if your metrics have abnormally gone up or down and what steps you took to resolve the situation.



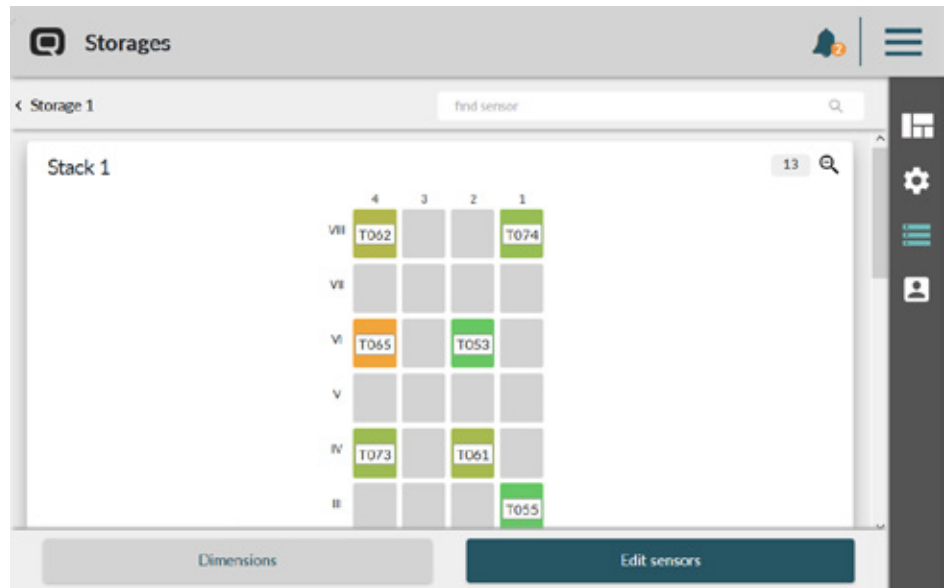
Sensor Settings

Under the sensor settings tab, you can give each of your sensors a display name. This can be useful, for example to mark the building they are in or if they are currently in use. Here you can also see the location of the sensor, if it is placed in the Quanturi storage locator.



Storage locator

Record the sensor positions with the Storage locator while stacking the bales. If you get a heat alert, you can easily locate the overheated bale from the stack for further protective actions.



Assistant Phones

Add more phone numbers to receive alert messages. Alert message will be dispatched to the phone numbers you add. This is a huge advantage because you have multiple people who are aware of the situation and can add a layer of security in case the principal person is away from the farm.

