

STM – Smart Temperature Monitoring device



The STM is a smart data logger specifically designed to collect temperature measurement data. It can be installed both indoors and outdoors, but can also be installed in underground shafts as it has an IP68 rated housing. The thermometer data is collected via a special sensor, so the device is capable of continuous data collection and transmits the measurement data to the server every hour. The device has an internal power source, so it can operate for 2-4 years, depending on the data communication period.

It is able to transmit the data using LoRaWAN or NB IoT communication technology to a dedicated server, from where the data can be read out via a display system. The device has its own antenna to ensure continuous access and reliable data transmission.

The system has an internal data storage and can send alerts related to the measurements if pre-set. (Pre-set-up is requested when ordering or values can be changed by a technician afterwards.)

Area of use:

- measuring the temperature of indoor and outdoor spaces
- measuring the temperature of agricultural areas
- measurement of temperatures in refrigerated spaces

Communication	
Transmission options	Nb-IoT/LoRaWAN
Antenna	External
Transmission frequency	Down to 5 minutes, typical 1 hour
SIM type (Nb-IoT)	eSIM
Battery	
Internal battery	3,6V
Battery chemistry	Lithium Thionyl Chloride (non rechargeable)
Environmental	
Operating temperature	-20 - 85 °C
Ingress protection	IP67 (optional IP68)
Physical	
Dimensions	82x80x55
Weight	200g

If the device was shipped with the battery inserted, the device is in working order and does not require any further action.

In outdoor locations, in underground manholes, it may be necessary to route the antenna through the manhole cover to achieve adequate coverage.