

# Temperature controlled logistics



## What is temperature controlled logistics?

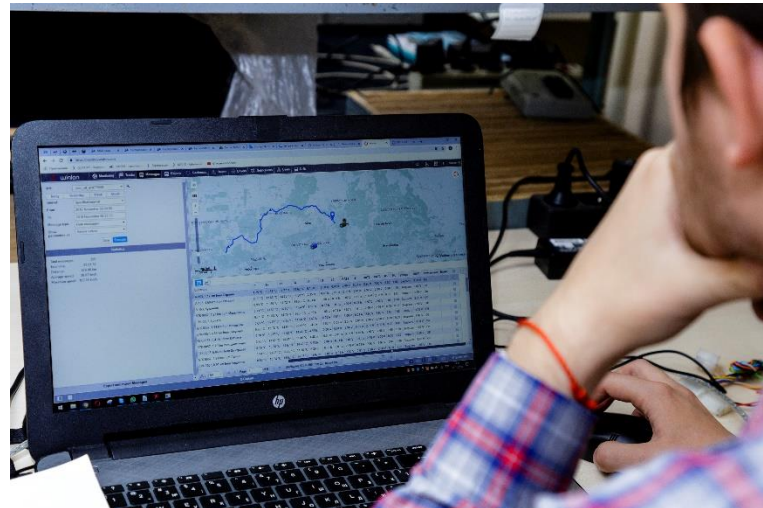
Temperature controlled logistics specializes in the storage, preservation and transportation of cargo that is sensitive to atmospheric conditions and needs to maintain a certain temperature. This is imperative for many products such as:

- Perishable foodstuffs
- Drugs
- Alcohol beverages
- Flowers
- Seeds
- Cosmetics



## What the carrier should provide in temperature controlled logistics?

- The acceptable temperature and humidity range
- The margin of error for the temperature
- Acceptable levels of risk
- Potential areas of risk and touch points
- Specific no-go actions that may compromise the integrity of the product



## Possible problems in temperature controlled logistics

- Customer claims, money and goods loosing
- Undisciplinatory drivers (unauthorized power outage and door opening)
- Sudden breakdowns
- Others



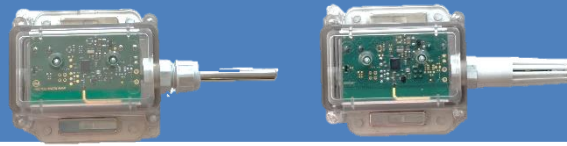
## Is there a solution which allows control all necessary parameters in the market?

Neomatica LLC is the first manufacturer which offered such solution – multifunctional sensor which allows control 4 parameters: temperature, light, magnetic field, humidity (optional). In 2021 company has presented new edition of this device – ADM35/ADM35H which does not have any analogs in the World. This sensor provides accurate measurement results, can work in autonomous mode with free mobile application, supports BLE Bluetooth long range and common data transfer protocols, has a high degree of protection



ADM35/ADM35H

## ADM35/ADM35H

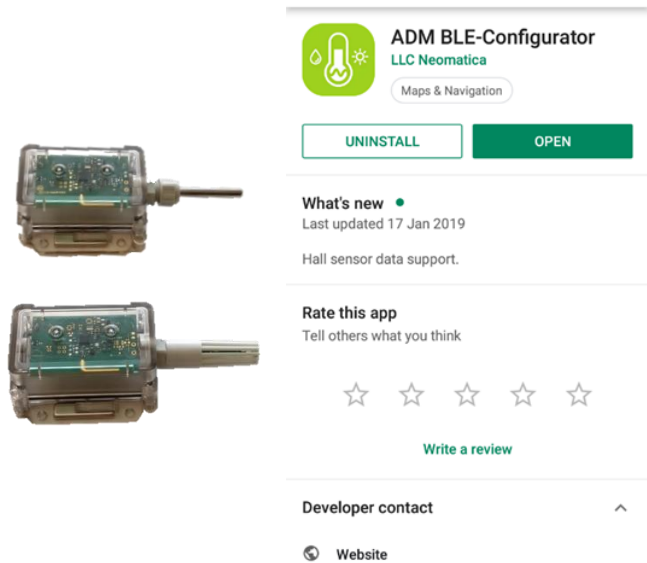


|  |   |
|--|---|
| Accuracy and range of temperature measurement: | from -40 up to +85 °C<br>(with wired measuring element up to +125°C)<br>accuracy $\pm 0,3^{\circ}\text{C}$  |
| Battery  | ER14505 (3,6V)  |
| Battery capacity                               | 2700 mA/h   |
| Operation time with one battery                | Starting from 3 years   |
| Data exchange technology                       | <ul style="list-style-type: none"><li>• in the mode of <b>BLE</b>: up to 100 m line-of-sight</li><li>• in the mode of <b>Bluetooth Long Range</b>: up to 1000 m line-of-sight</li></ul> |
| Operation temperature range                    | from -40 up to +85 °C   |
| Design   | <ul style="list-style-type: none"><li>• External measuring element</li><li>• Magnets for mounting</li><li>• Space for the seal</li><li>• Tight housing</li></ul>                        |
| Installation                                   | magnets on flat metal surface,<br>on other surfaces: screws or a double-sided adhesive tape   |
| Accuracy of humidity measurement:              | $\pm 4\%$ (only ADM35H measures humidity)   |

# BLE Long Range sensor ADM35 operation mods

1

Autonomous mode  
(Smartphone +ADM BLE Configurator)



2

With Bluetooth trackers directly (ADM333, Teltonika FMB),  
With any tracker which supports RS-485 through BLE Base ADM30



Up to 255 (!!!)  
devices to one tracker

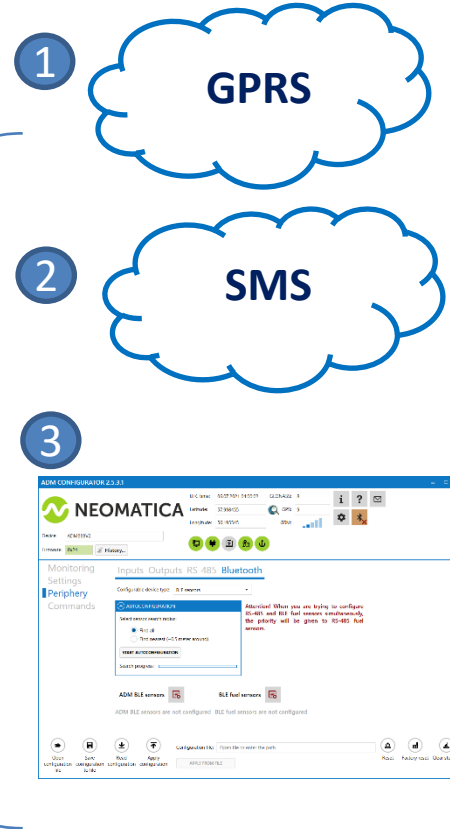
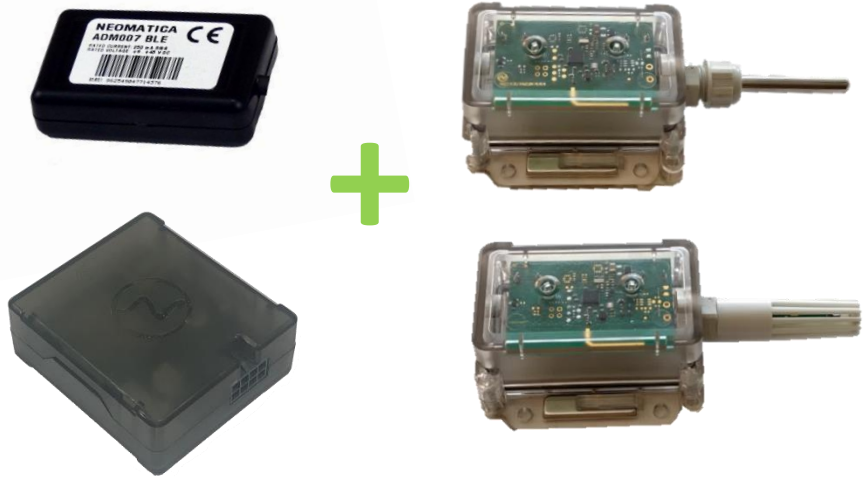
Up to 1000 m of stable  
signal receiving

Any tracker  
which supports  
RS-485  
(Modbus, LLS  
protocol)

# Usage of ADM35/ADM35H with ADM BLE trackers

Integration with ADM tracker that contains BLE is performed by several options:

- 1) by commands via SMS;
- 2) by commands via GPRS (Server, for example Wialon)
- 3) or by "ADM Configurator" using Bluetooth of PC or of your Smartphone





# Fields of ADM35 application in the temperature controlled logistics

Refrigerators and trucks with perishable food, medicine, plants, livestock, etc.  
You need: ADM35 + BLE tracker (GPS tracker + ADM30 base (BLE/RS-485 adapter)) + Platform



Stationary refrigerators in malls, factories or big stocks  
You need: ADM35 ( can be with a wired measuring element) + Free mobile application



Greenhouses, flower, grass, mushrooms farms  
You need: ADM35 ( with a wired measuring element) + Free mobile application

ADM35/ADM35H is the best solution which saves your money, because it:

- Allows you, your driver and your customer monitor all parameters online both via mobile phone and via telematic server;
- Provides irrefutable documents in a dispute with the customer;
- Helps to increase discipline of the driver;
- Allows you and your driver to find out that the refrigerator needs urgent repair.



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