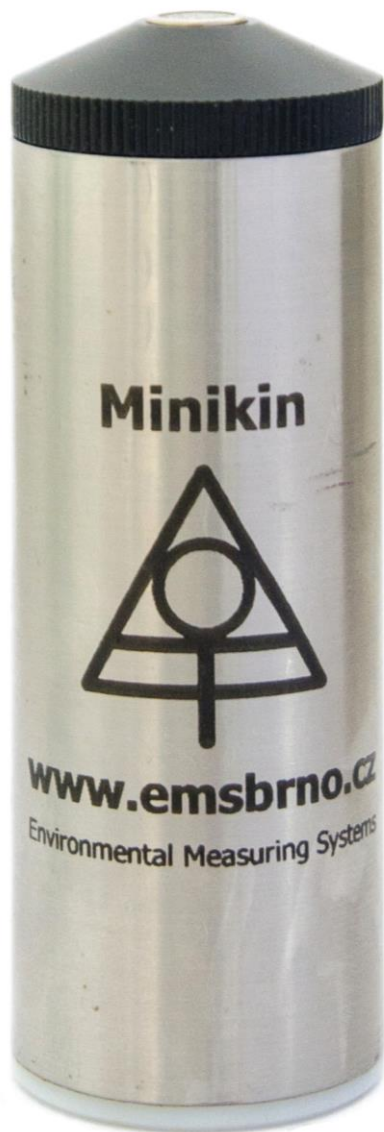




EMS Brno

**Data Acquisition Environment**  
Hardware – Software – Cloud application  
[www.emsbrno.cz](http://www.emsbrno.cz)

## Minikin THI



### Main features:

- Built-in sensors for air temperature and humidity
- Infrared wireless data access
- High accuracy
- Non-volatile memory, typically 100,000 readings
- Long lasting battery
- Compatible with radiation shield AI 073
- Advanced Windows® software including basic statistics, regression analysis and user programmable calculation



### Specifications:

- Temperature accuracy  $\pm 0.15$  °C
- Relative humidity accuracy  $\pm 2\%$
- Operating range:
  - Temperature from -40 to 60 °C
  - Relative humidity from 0 to 100 %



## Minikin THi

Minikin THi is small datalogger with built-in sensors for the measurement of air temperature and humidity. It is intended for long-term monitoring. The measuring accuracy, memory size and the overall design overruns most of the similar products.

Minikin THi sensors are ready to be mounted in radiation shield AI 073. Radiation shield prevents direct and reflected sunrays from heating the temperature sensor and allows adequate airflow to ventilate the sensor.

The datalogger case is made from stainless steel and polyethylene terephthalate (PETE).

The non-volatile data memory can store typically 100,000 measured values what is enough for more than six years of storing of two measured variables in hourly intervals. According to measuring mode, the new data may be either overwritten on top of oldest data in the memory or the measurement stops when the memory is full.

The long-lasting primary cell assures more than two-year measurement of two variables in 10-minutes interval. The battery can be replaced directly by user.

As each EMS system, the datalogger is supported with sophisticated Mini32 software with many advanced features including file linking up and statistics.

### Specification

Memory size	256 kByte
Resolution	16 bits
Clock accuracy (-10 to 40 °C)	better than $\pm 15$ sec/month
Measuring intervals	3 sec to 4 hrs
Storing intervals	3 sec to 4 hrs
Memory capacity with measuring interval 1 hour	ca 6 years
Battery lifetime with measuring interval 1 hour	ca 5 years
Temperature accuracy	$\pm 0.15$ °C
Relative Humidity accuracy	$\pm 2\%$
Protection rating	IP60
Protection rating (mounted in radiation shield)	IP63
Size (diameter x length)	30 x 84 mm
Weight	89 g
Operating environment temperature	-40 to 60 °C
Operating environment humidity	0 to 100%
Battery	SAFT LS14250CNA

### Software:

Mini32 universal software running under Windows® 7, 8 and 10. The software assures all necessary operations – system setup, data downloading and processing. Its data processing part is made for work with large and long-time data series. It offers exceptionally sophisticated visualization and data manipulation, it includes basic statistic features, creates and prints graphs and exports data to different file formats.

**Two-year full warranty.**