



EMS Brno

Data Acquisition Environment
Hardware – Software – Cloud application
www.emsbrno.cz

Minikin Tie



Main features:

- Intended for long-term measurement in harsh environment, soil or water
- Immersible up to 20 m
- Three material of the case
- Infrared wireless data access
- Non-volatile memory for 100,000 readings
- Long lasting battery
- Advanced Windows® software includes basic statistics, regression analysis and user programmable calculation



Specifications:

- Temperature accuracy ± 0.2 °C
- Operating range:
 - Temperature from -40 to 60 °C
 - Relative humidity from 0 to 100%
- Non-volatile memory, typically 100,000 readings – three years when storing 30-minute values
- Long lasting lithium battery – five years when measuring in 30-minute intervals



Minikin Tie

Minikin Tie is small datalogger with built-in temperature sensor. It is intended for long-term monitoring in water, soil and other harsh environments. The datalogger case is immersible up to 20 m, the case is manufactured from stainless steel or high-density polyethylene terephthalate (PETE).

The non-volatile data memory can store typically 100,000 measured values what is enough for more than five years of storing of measured temperature values 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 three-year measurement in 10-minutes interval. The battery can be replaced directly by user.

As each EMS system, the datalogger is supported with powerful Mini32 software with a lot of advanced features including base statistics.

Specification

Memory size	128 kB
Resolution	16 bits
Clock accuracy (-10 to 40 °C)	better than ± 15 sec/month
Measuring intervals	30 sec to 4 hrs
Storing intervals	30 sec to 4 hrs
Memory capacity with measuring interval 1 hour	over 5 years
Battery lifetime with measuring interval 1 hour	over 5 years
Temperature accuracy	± 0.2 °C
Protection rating	IP 68
Size (diameter x length)	20 x 100 mm
Weight	33 g (110 g stainless case)
Operating environment temperature	-40 to 60 °C
Operating environment humidity	0 to 100%
Battery	SAFT LS14250CNA

Case material:

Stainless case - due to higher weight it suits for measurements in lakes or reservoirs

White plastic case – multipurpose use

Black plastic case – when the higher effect of irradiation is demanded

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.