



# Environmental Measuring Systems

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## Datalogger Minikin i-line



### Main features:

- Different sensor combinations
- Infrared wireless data access
- High accuracy
- Non-volatile memory, typically 60,000 readings
- Watertight sturdy design
- Long lasting lithium battery
- Advanced Windows® software including basic statistics, regression analysis and user programmable calculation.



### Models available:

- **Ti** – temperature
- **Tie** – temperature, slim design
- **THi** – temperature and humidity
- **RTi** – global radiation and humidity
- **QTi** – PAR and temperature
- **RTHi** – global radiation, temperature and humidity
- **QTHi** – PAR, temperature and humidity



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## Minikin Ti, Tie, THi, RTi, QTi, RTHi, QTHi

Minikins are small dataloggers with built-in sensors for the measurement of environmental variables. They are intended for long-term monitoring. The measuring accuracy, memory size and the overall design overruns most of the similar products.

The datalogger case is watertight, made from stainless steel and polyethylenterephthalat (PETP). The humidity sensor has sintered stainless steel filter to protect it against splashing.

The non-volatile data memory can store typically 60,000 measured values what is enough for more than two years of storing of three 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 Lithium-ion battery assures three-year measurement of three 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:

<i>Datalogger</i>	
Voltage range	±20 mV to ±1.250 mV in eight ranges
Resolution	16 bits
Voltage accuracy	0.03 % of full scale
Operating ranges	
- temperature	-40 to 60 deg.C
- relative humidity (TH)	0 to 100%
- measuring intervals	10 sec to 4 hrs
- interval of averaging (storing)	10 sec to 4 hrs
- clock accuracy (-10 až 40 deg.C)	better than ±1 minute per month
- memory size	128 kByte
- memory capacity	up to 60,000 measured values
Battery	Lithium 3.6V; 900mAh
Battery lifetime	
- measuring interval 1 min	1 year
- measuring interval 1 hour	ca 6 years
<i>Built-in sensors accuracy</i>	
- temperature	± 0.15 deg.C
- relative humidity (TH)	± 2%
- radiation	± 5%
<i>Protection rating</i>	IP69
Size (diameter x length)	30 x 84 mm (20 x 104 mm slim design)
Weight	80 to 100 g

**Software:** Mini32 universal software running under Windows® 95, 98, 2000, NT, XP, 7. The software assures all necessary operations – system setup, data saving, data processing. It includes basic statistic features, creates and prints graphs and exports data to different file formats.

**Two-year full warranty.**