

# RT-F51

Precise miniature temperature logger 0° to 125°C



- ◆ Miniature rugged construction
- ◆ Waterproof
- ◆ Precise
- ◆ For use in gastronomy, pharmacy, food processing

**Temperature data logger RT-F51** excels with its miniature dimensions and rugged design. It is designed for temperature checks and recordings during sterilization, pasteurization and all types of thermal processing which runs near water boiling point.

## Cheap reliable solution !

Comparing with RT-F52 version it has two times better precision, quadruple memory size, much higher recording time span and possibility to change resolution between 0,5 °C and 0,0625 °C.

For communication with and setting up data logger one can order easy to use QiTerm software (actually available only in Czech language), that also stores measured data, registers used loggers and in addition to standard functions (e.g. data selection, graph printing) it offers special functionalities like temperature histograms or warnings for logger full memory.

### Typical usage:

- Heating, venting and air conditioning (HVAC)
- Process monitoring of temperatures near water boiling point, like pasteurization
- Cooling system monitoring
- Biotechnology
- Incubation processes
- Industry temperatures monitoring

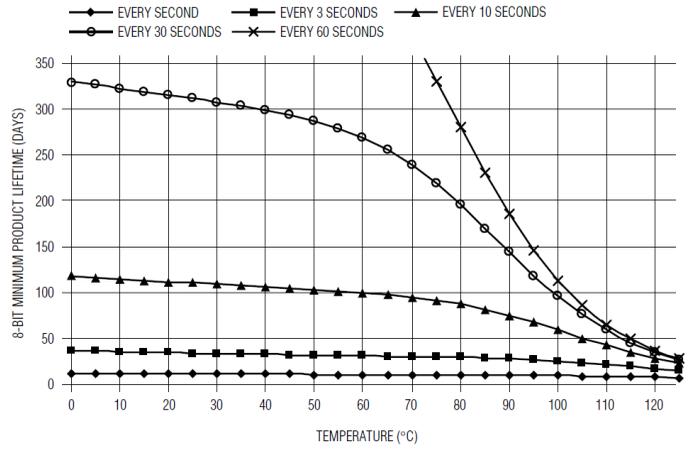
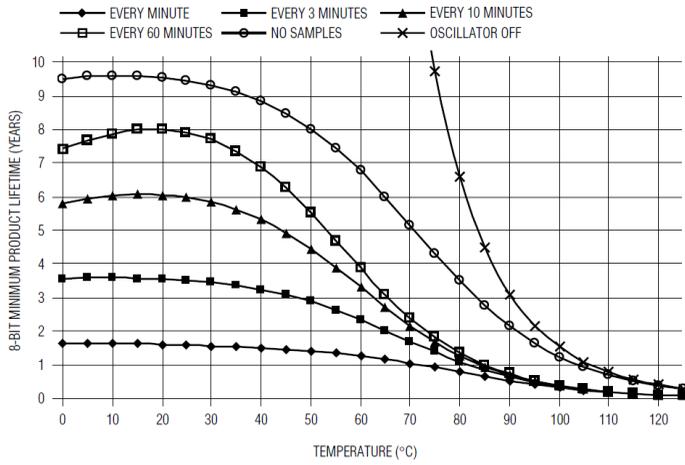
## Technical parameters

Memory capacity	8192 measured values (8-bit resolution), 4096 values (11-bit resolution)
Measurement range	0 ° to 125 °C (junction temperature: 150°C)
Time period	from 1 s to 273 hours
Delayed start	reading can be started at preset date and time or by reaching setup temperature
Temperature precision	±0.5°C (in 20°C to 75°C range), ±1°C (in 75°C to 105°C range), otherwise ±1°C
Resolution	0.5°C (8-bit resolution) or 0,0625°C (11-bit resolution)
Clock precision	± 2 min./month at 25 °C
Dimensions	17,4 mm (diameter), 5,9 mm (height)
Covering	IP 56 (dust tight and water resistant against water squirting from any direction). For use in liquids or under pressure you should use watertight covering RT-FC
Communication interface	RS232 or USB interface
Software	QiTerm for Windows (only in Czech)
Power source	non-exchangeable internal battery integrated inside case
Lifetime	3 to 7 years (when normally used). Lifetime is significantly shortened when used at temperatures higher than 80°C)

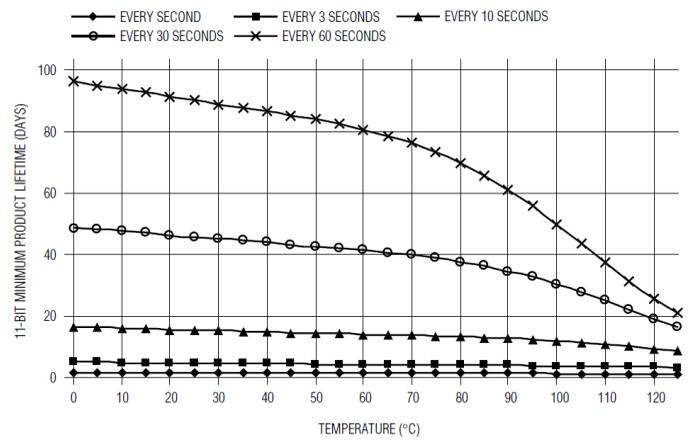
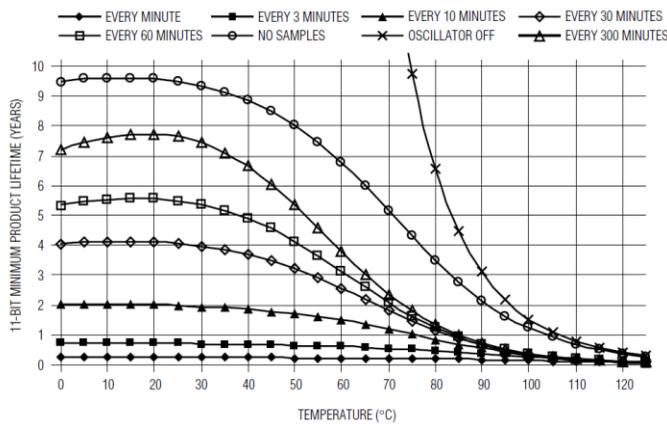
### Optional accessories:

- Interconnection cables, interconnection interfaces
- Calibration certificate from accredited metrology lab
- Watertight case RT-FC

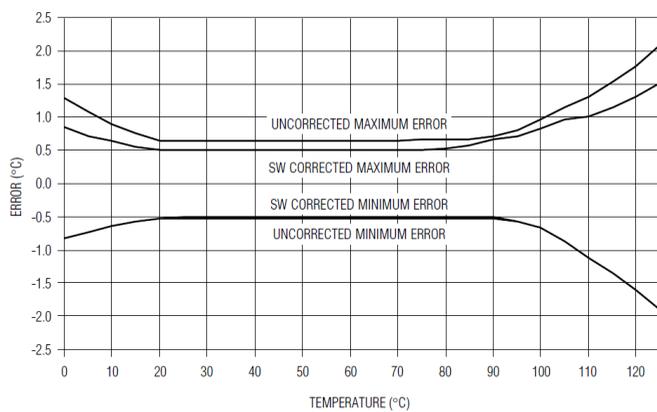
### Minimum product lifetime vs. Temperature, slow and fast sampling rate, 8-bit resolution



### Minimum product lifetime vs. Temperature, slow and fast sampling rate, 11-bit resolution



### Temperature accuracy



### Watertight case RT-FC

