



LIBERO GS

- > 100% calibrated & compliant
- > Flight-proof; no DGR declaration required
- > Multi-level alarm criteria

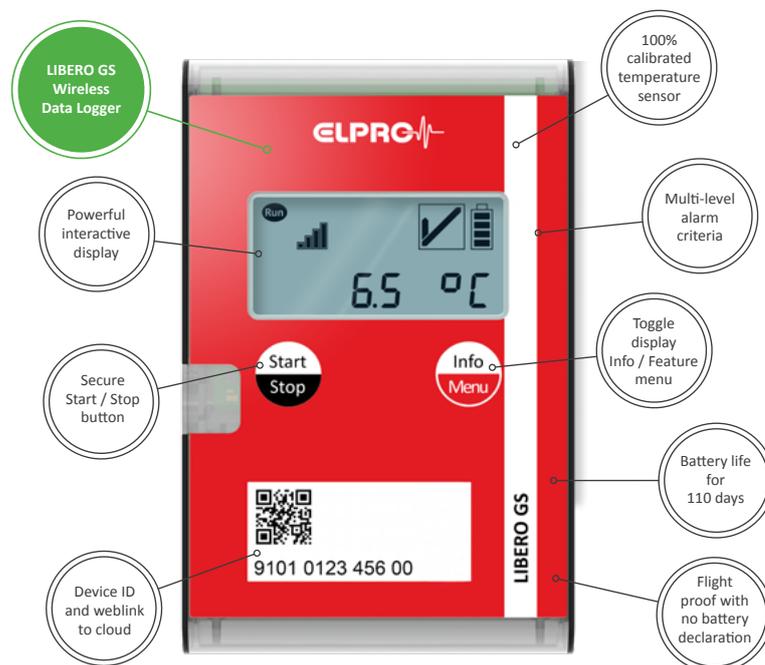


TECHNICAL SPECIFICATIONS

LIBERO GS

Single Use Real-Time Temperature Data Logger

LIBERO GS is the real-time logger that simplifies the temperature monitoring of your shipments. The internal temperature sensor is highly accurate and comes with a 100% sensor calibration. With an ensured runtime of 110 days, LIBERO GS is ideal for the global distribution of temperature sensitive products. In addition to temperature, LIBERO GS monitors the location of the shipment. LIBERO GS features a powerful, interactive display to facilitate your shipment process. LIBERO GS uploads all measured data automatically to a safe cloud environment where all shipments are monitored. LIBERO GS ideally complements the existing (USB) data logger portfolio. The automatic flight detection and the abandonment of lithium batteries allows the usage for airfreight without cumbersome dangerous goods declaration. Up to 16.000 temperature values can be stored on the logger to temporarily buffer measurement data. At the end of the shipment release products directly based on the OK or ALARM status on the display and download the PDF report from the cloud.





- > Real-time insights of your valuable shipments on road, air and sea
- > Highly accurate and 100% calibrated temperature sensor
- > Simple and safe in use and application
- > Fully compliant with industry guidelines

Technical Specification LIBERO GS

Type	Wireless Data logger with internal temperature sensor
Application area	Transport Monitoring: Global distribution of temperature sensitive products
Recording options and mode	Single use: start/stop mode
Sensors	Temperature sensor Geographical location
Measurement range	Measurement range of internal sensor: -30 °C..+70 °C
Measurement accuracy	Internal Sensor ±1.0 °C for -30.0 °C..-20.1 °C ±0.5 °C for -20.0 °C..-0.1 °C ±0.4 °C for 0.0 °C..+65.0 °C ±0.5 °C for +65.1 °C..+70 °C
Resolution	0.1 °
Measurement interval	15 to 60 minutes, user programmable
Cellular network	LTE-M and NB-IoT
Communication interval	2 to 6 hours, user programmable, event-driven immediate communication (e.g. excursion, last will) No communication in frozen application (measurement data is buffered and can be transmitted with next communication)
Measurement capacity	16.000 measurement values (equals 166 days with 15 min measurement interval)
Expiry date and battery life	Data logger can be started any time during shelf life Started data logger runs until logger is stopped (max. 110 days) Intensified communication behavior (e.g. bad connection or local provider settings) can shorten battery life
Battery type	Alkaline batteries (non-replaceable), exempt from DGR declaration
Configurable alarms	2 temperature thresholds with alarm delay
Start-up delay	User configurable based on time, or button
Display	Multifunction LCD, size: 42 × 20 mm
Certificate	Calibration certificate (3-points); additional calibration points or ISO 17025 certification ¹ available Validation Certificate
Traceability	Unique ID number (traceable to component level)
Reporting	Real-time visibility and notification about temperature excursions or occurrences via an ELPRO cloud solution
Case dimension weight	ABS plastic material 100 × 65 × 19 mm (3.9 x 2.5 x 0.7 in) 125 g (4.4 oz)
Conformity	CE FCC ICES RoHS UN38.3 WEEE
Standards	EN 12830 RTCA DO-160 (EMC) GAMP5

¹ Reported without customer contact information according to ISO 17025 7.8.1.3 due to data protection requirements.

