

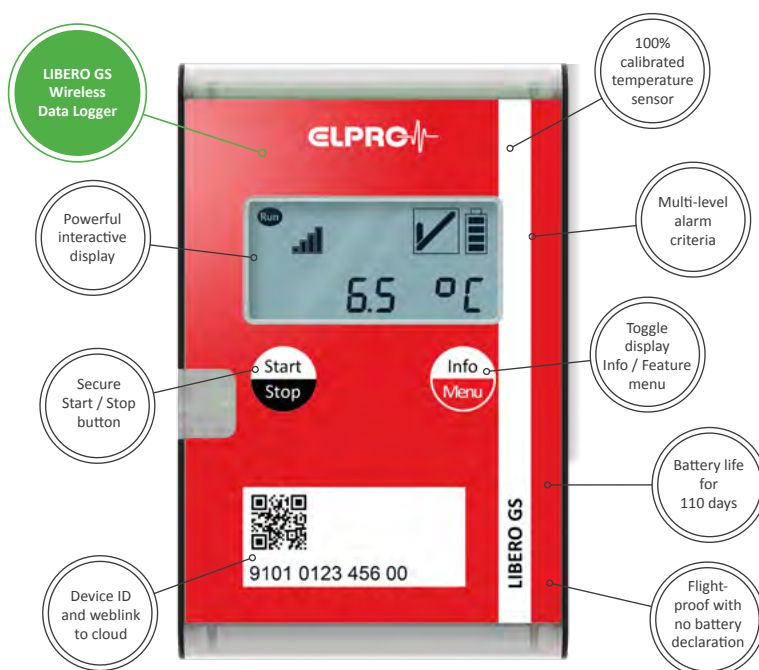


## TECHNICAL SPECIFICATIONS

# 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 31.000 temperature values can be stored on the data 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 elproCLOUD.





- > Real-time insights into 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 Specifications LIBERO GS

<b>Type</b>	Wireless Data logger with internal temperature sensor
<b>Application area</b>	Transport Monitoring: Global distribution of temperature sensitive products
<b>Recording options and mode</b>	Single use: start / stop mode
<b>Sensors</b>	High accuracy digital temperature sensor   Geographical location   Light   Tilt
<b>Measurement range</b>	Measurement range of internal sensor: -30 °C..+70 °C
<b>Application range</b>	0 °C.. + 55 °C (only short term use above and below application range allowed)
<b>Measurement accuracy</b>	<b>Internal Sensor</b> ±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
<b>Resolution</b>	0.1 °
<b>Measurement interval</b>	15 to 60 minutes, user configurable via elproCLOUD
<b>Cellular network</b>	LTE-M and NB-IoT
<b>Communication interval</b>	2 to 6 hours, user configurable via elproCLOUD, event-driven immediate communication (e.g. excursion, last will) No communication in frozen application (measurement data is buffered and is transmitted with next communication)
<b>Measurement capacity</b>	31.000 measurement values (equals 322 days with 15 min measurement interval)
<b>Expiry date and battery life</b>	Data logger can be started any time during shelf life (auto expiry data management) Started data logger runs until logger is stopped (max. 110 days) Intensified communication behavior (e.g. bad connection or local provider settings) will shorten battery life
<b>Battery type</b>	AA-Alkaline batteries (non-replaceable), exempt from DGR declaration
<b>Configurable alarms</b>	2 temperature thresholds with alarm delay
<b>Start-up delay</b>	User configurable based on time, or button
<b>Display</b>	Multifunction LCD, size: 42 × 20 mm
<b>Certificate</b>	Manufacturer validation certificate per delivery, production validation and 3-point calibration certificate (ILAC/NIST/ISO 17025 traceable) pre ID number via compliance.elpro.com, additional customer-specific calibration points optionally available.
<b>Traceability</b>	Unique ID number (traceable to component level)
<b>Reporting</b>	Real-time visibility and notification about temperature excursions or occurrences via elproCLOUD
<b>Case   dimension   weight</b>	ABS plastic material   100 × 65 × 19 mm (3.9 × 2.5 × 0.7 in)   125 g (4.4 oz)
<b>Conformity</b>	CE   FCC   UKCA   ICES   RoHS   UN38.3   WEEE   NCC   RSM   TDRA   ENACOM   IMDA   MIC   ACMA/RCM
<b>Standards</b>	EN 12830   RTCA DO-160 (EMC)   GAMP5

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