

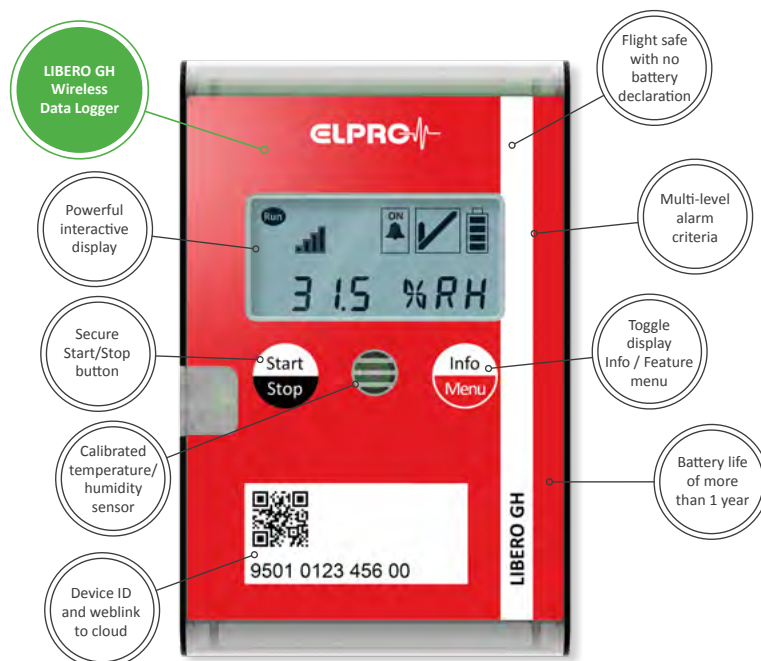


TECHNICAL SPECIFICATIONS

# LIBERO GH

Multi Use Real-Time Data Logger for Temperature and Humidity

LIBERO GH is the ideal real-time data logger for climate monitoring of shipments as well as for test and verification systems. LIBERO GH features a highly accurate and 100% calibrated temperature / humidity sensor, allowing to set multi-level alarm criteria, but also does LIBERO GH monitor the location of the shipment. LIBERO GH features a powerful, interactive display to facilitate your shipment process. LIBERO GH offers a runtime of more than one year. The automatic flight detection and the abandonment of lithium batteries allows the usage for airfreight without cumbersome dangerous goods declaration. LIBERO GH uploads all measured data automatically to a save cloud environment where all shipments are monitored. 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. Optionally, a robust, lockable bracket is available.



we prove it.

SWISS QUALITY



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

## Technical Specification LIBERO GH

<b>Type</b>	Wireless Data logger with internal temperature/humidity sensor	
<b>Application area</b>	Transport Monitoring, Test and Verification Systems	
<b>Recording options and mode</b>	Multiple use: start/stop	
<b>Sensors</b>	Combined Temperature/Relative Humidity sensor   Geographical location	
<b>Measurement range</b>	Measurement range of internal sensor: -30 °C..+70 °C, 0 %RH..100 %RH	
<b>Application range</b>	0 °C..+55 °C (only short term use above and below application range allowed)	
<b>Measurement accuracy</b>	<b>Temperature</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>Humidity (RH @ 23 °C)</b> ±2.5 % RH for 0 % RH..90 % RH ±3.5 % RH for 90.1 % RH..100 % RH
<b>Resolution</b>	0.1 °	
<b>Measurement interval</b>	15 to 60 minutes, user programmable	
<b>Cellular network</b>	LTE-M and NB-IoT	
<b>Communication interval</b>	2 to 6 hours hours, user programmable, event-driven immediate communication (e.g. excursion, last will)	
<b>Measurement capacity</b>	16.000 measurement values	
<b>Battery life</b>	Up to 14 months (+ 12 months shelf life) Intensified communication behavior (e.g. bad connection or local provider settings) can shorten battery life	
<b>Battery type</b>	Alkaline batteries (non-replaceable), exempt from DGR declaration	
<b>Configurable alarms</b>	Upper and lower thresholds (with delay) for temperature and/or humidity	
<b>Start-up delay</b>	User configurable based on time, or button	
<b>Display</b>	Multifunction LCD, size: 42 × 20 mm	
<b>Certificate</b>	Calibration certificate (3-points); additional calibration points or ISO 17025 certification <sup>1</sup> available Validation Certificate	
<b>Traceability</b>	Unique ID number (traceable to component level)	
<b>Reporting</b>	Real-time visibility and notification about temperature excursions or occurrences via an ELPRO cloud solution	
<b>Case   dimension   weight</b>	ABS plastic material   100 × 65 × 19 mm (3.9 x 2.5 x 0.7 in)   126 g (4.4 oz)	
<b>Conformity</b>	CE   FCC   ICES   RoHS   UN38.3   WEEE	
<b>Standards</b>	EN 12830   RTCA DO-160 (EMC)   GAMP5	

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