



ELPRO

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 safe cloud environment where all shipments are monitored. 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. Optionally, a robust, lockable bracket is available to hold LIBERO Gx in a defined position.





- > Real-time insights into 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 Specifications LIBERO GH

Type	Wireless Data logger with combined internal temperature /humidity sensor	
Application area	Transport Monitoring: global distribution of temperature & humidity sensitive products	
Recording options and mode	Multiple use: start/stop, Loop mode	
Sensors	High accuracy digital temperature/humidity sensor Geographical location Light Tilt	
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	Humidity (RH @ 23 °C) ± 2.5 % RH for 0 % RH.. 90 % RH ± 3.5 % RH for 90.1 % RH.. 100 % RH
Resolution	0.1 °	
Measurement interval	15 to 60 minutes, configurable via elproCLOUD	
Cellular network	LTE-M and NB-IoT	
Communication interval	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 ordinary communication)	
Measurement capacity	31.000 measurement values (equals 322 days with 15 min measurement interval)	
Expiry date and battery life	Data logger can be started any time during shelf life (auto expiry data management) Started data logger runs up to 14 months 6 months continuous operation with 15 min measurement interval and 120 min communication interval Intensified communication behavior (e.g. bad connection or local provider settings) and application below 0° C and above +55 °C will shorten battery life	
Battery type	AA-Alkaline batteries (non-replaceable), exempt from DGR declaration	
Configurable alarms	2 temperature /humidity thresholds with alarm delay	
Start-up delay	User configurable based on time, or button	
Display	Multifunction LCD, size: 42 × 20 mm	
Certificate	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.	
Traceability	Unique ID number (traceable to component level)	
Reporting	Real-time visibility and notification about temperature /humidity excursions or occurrences via elproCLOUD	
Case dimension weight	ABS plastic material 100 × 65 × 19 mm (3.9 × 2.5 × 0.7 in) 125 g (4.4 oz)	
Conformity	CE FCC UKCA ICES RoHS UN38.3 WEEE NCC RSM TDRA ENACOM IMDA MIC ACMA/RCM	
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.

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