

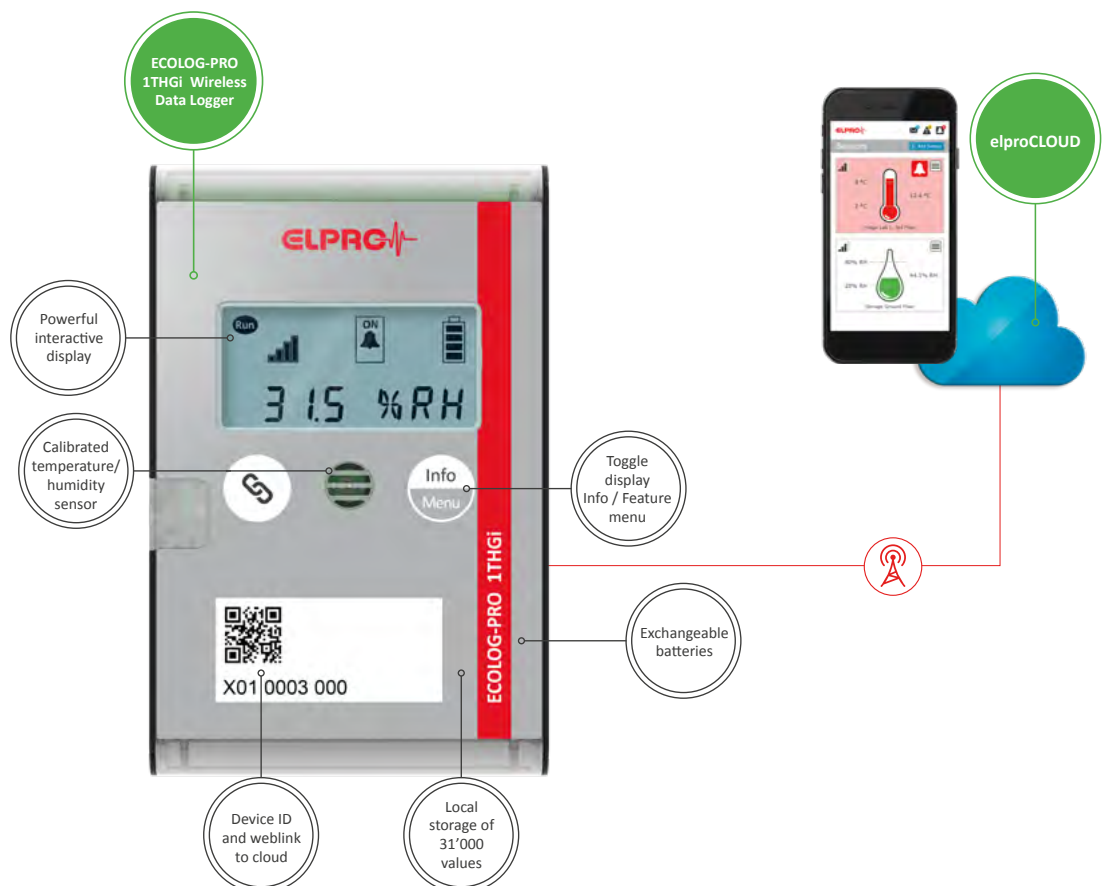


TECHNICAL SPECIFICATIONS

ECOLOG-PRO 1THGi

Wireless IoT data logger with internal temperature/humidity sensor for elproCLOUD

ECOLOG-PRO 1THGi is an easy and versatile solution to monitor your valuable goods stored in refrigerators, freezers or ambient conditions. Battery-operated and wireless, cellular network ensure plug and play – set-up is easy and only takes a few minutes. Simply register the sensor on your elproCLOUD account and place it in your room or equipment. A reliable internal storage capacity for thousands of measurements ensures all your valuable data are sent to elproCLOUD. The elproCLOUD web application aggregates all your sensor data to provide a convenient, comprehensive overview, sending out alerts if alarm limits are breached. Optionally, a robust, lockable bracket is available.



we prove it.

SWISS QUALITY



- > Monitors your valuable goods in rooms, refrigerators or freezers
- > Highly accurate and 100% calibrated temperature/humidity sensor
- > Simple and safe in use and application
- > Flexible positioning thanks to cellular communication
- > Compliant, Scalable IoT Data Logger Solution

Technical Specifications ECOLOG-PRO 1THGi

Type	Wireless IoT data logger with internal temperature/humidity probe	
Application area	Climate monitoring for rooms, refrigerators, freezers	
Sensors	Combined Temperature/Relative Humidity sensor Light sensor	
Measurement range	Measurement range of internal sensor: -40 °C..+70 °C, 0 %RH...100 %RH (non-condensing)	
Application range	0 °C..+55 °C for Alkaline battery / -35 °C..+55 °C for LiFe battery (Standard) (only short term use above and below application range allowed)	
Measurement accuracy	Temperature ±0.4 °C for -40 °C..+70 °C	Humidity (RH @ 23 °C) ±2.5 %RH for 0 %RH..90% RH ±3.5 %RH for 90.1 %RH..100% RH
Measurement Resolution	0.1 °C	
Measurement interval	15, 20, 30, 60 minutes; user programmable via software (elproCLOUD)	
Cellular network	LTE-M and NB-IoT (Global Roaming)	
Communication interval	30 minutes to 2 hours according to communication mode (Standard/Performance), user configurable via elproCLOUD, event-driven immediate communication (e.g. temperature excursion)	
Measurement capacity	31'000 measurement values (equal 322 days at 15 min measurement interval)	
Battery life	Started data logger runs up to 14 months, batteries are exchangeable. Use below 0 °C and above +40 °C over a longer period of time and/or intensified communication behavior (e.g. bad connection) can shorten battery life	
Battery type	2 × Alkaline AA (for refrigerators or ambient) or 2 × LiFe AA (for freezer applications)	
Configurable alarms	7 temperature thresholds with alarm delay (4 upper limits, 3 lower limits)	
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) per ID number via compliance.elpro.com, additional customer-specific calibration points optionally available.	
Traceability	Unique ID number (traceable to component level) + IMEI (International Mobile Equipment Identity)	
Reporting	Via software (elproCLOUD)	
Case dimension weight IP code	ABS plastic material 100 × 65 × 19 mm (3.9 × 2.5 × 0.7 in) 125 g (4.4 oz) IP52	
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	