



# ECOLOG-NET Network Dataloggers for Central Monitoring Systems



## COMMUNICATION TALENT

### WITH HIGH DATA SAFETY

ECOLOG-NET dataloggers combine the assets of autonomous and safe data logging with the advantages of modern network technology. From the real time display of data points on each PC in your company to fully automated data saves, the new generation of network-compatible dataloggers opens fascinating possibilities for simplifying your workflows in the field of process and quality monitoring.

### Safety and convenience

ECOLOG-NET dataloggers are the ideal units for logging temperature, relative air humidity or 4-20mA signals. The dataloggers store the recorded data in their internal memory. This data can be loaded to the PC via the network. The system offers the highest level of data safety as the datalogger continues data point logging even in the event of a power failure or network interruption by running from its own internal battery.

### Perfect and wireless integration

To make integrating the units in your network as easy as possible, ECOLOG-NET dataloggers are available with a LAN or Wireless LAN interface. On request, the units can also be fitted with PoE modules (Power over Ethernet). PoE allows the units to be supplied directly on the same cable used for the network connection, thereby eliminating the need for additional supply cables.

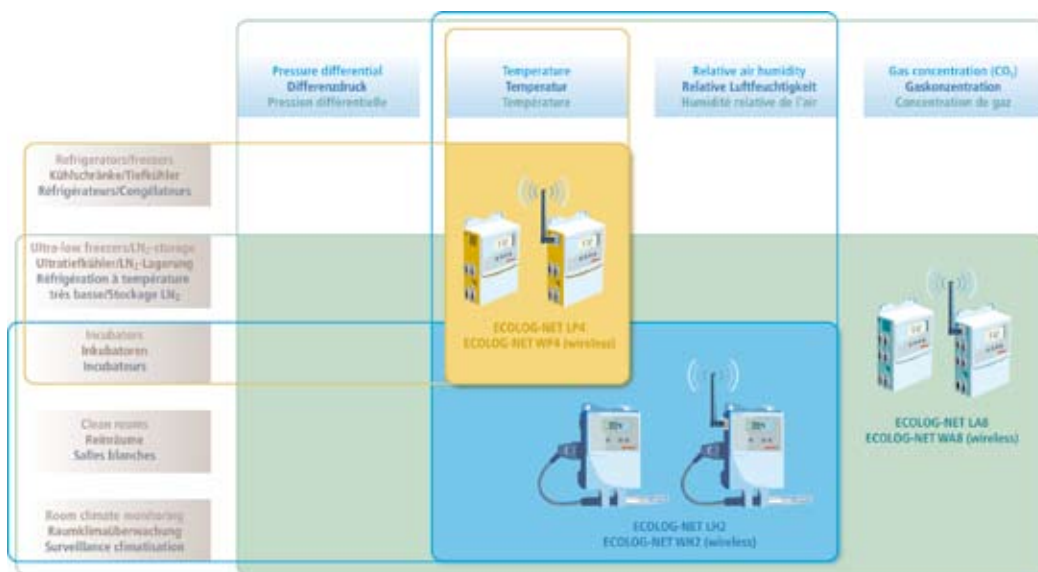
## THE ECOLOG-NET FAMILY

- 4 and 8 channel dataloggers with LAN or Wireless LAN connection (external 10-30VDC voltage supply required for network communication)
- Wireless LAN standard: 802.11b
- PoE support available (spare pairs)
- USB connection for local communication with datalogger
- Large memory capacity for 64,000 data points
- Data safety even in event of power failure due to integrated backup battery
- Large display showing currently measured values and alarm information
- Keypad
- Evaluation on the PC with elproLOG software
- Inputs for recording digital states
- Multifunctional alarm output (break/make contact)
- Measuring interval and alarm thresholds defined by user
- Versatile alarming capabilities:
  - via network (together with optional elproLOG MONITOR)
  - local via integrated alarm contacts
  - alarms shown on display
  - via integrated alarm buzzer
- Open interface for communication with other units and systems
- Robust metal housing

## APPLICATIONS AREAS

### AND USES

- Warehouses and cold storage warehouses
- Cold storage areas for pharmaceutical products
- Chilled showcases and storage areas for food products
- Museums and galleries
- Technical processes
- Air-conditioned areas



## ECOLOG-NET LA8/WA8



Part No. 2720 LA8  
Part No. 2721 WA8 (wireless LAN)

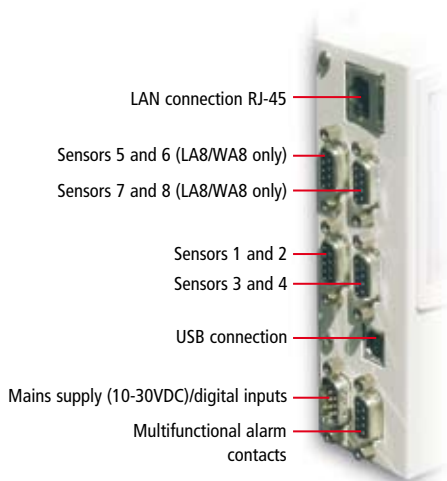


The 8 channel ECOLOG-NET LA8/WA8 is designed for **logging any transmitter signals on the basis of the 4-20mA standard**. The LA8/WA8 can be used, in conjunction with the large range of transducers, for a multitude of applications and industries.

- 8 channel datalogger with 4-20mA inputs for logging differential pressure, CO<sub>2</sub>, particle concentrations, etc.
- Direct display of sensor units
- Special functions for connecting particle counters (whole-number display and limit values)
- Data protection even in event of power failure (for uninterrupted logging; in the event of malfunctioning, an UPS is required to support the sensor supply)

### CONNECTIONS

ECOLOG-NET offers versatile communication capabilities. In addition to the LAN connection, there is a USB socket for local communication in the event of a network error. Two digital inputs (D1 and D2) can also be logged.



## ECOLOG-NET LP4/WP4



Part No. 2701 LP4  
Part No. 2703 WP4 (wireless LAN)



The ECOLOG-NET LP4/WP4 is a 4 channel datalogger designed for **logging and monitoring temperatures**. Standardized PT100 measuring technology allows the unit to be used for a multitude of various applications, from monitoring low temperatures to documenting drying procedures.

- 4 channel datalogger
- Principle of measurement: 3 or 4 wire PT100 in accordance with EC751/EN60751
- Autonomous data logging even in event of network and power failures
- State-of-the-art measurement technology allows cable lengths of up to 70m (in the case of weak electromagnetic interference)

## ECOLOG-NET LH2/WH2



Part No. 2706  
Set: ECOLOG-NET LH2 with external T/RH probe (Part No. 3087) and probe holder

Part No. 2705 LH2  
Part No. 2707 WH2 (wireless LAN)



The ECOLOG-NET LH2 is ELPRO's network-compatible datalogger designed for **logging temperature and relative air humidity** with two T/rH probes. Its wide measuring range, high accuracy and reliability make the LH2 the ideal unit for the demanding user.

- Temperature and relative air humidity logging with internal and external sensors
- Principle of measurement:  
T: Resistance measuring (NTC)  
rH: Capacitive
- Use of calibrated and replaceable universal probes
- Large display showing currently measured values and alarm information
- Inputs for logging digital states

**PT100 PROBES (SELECTION)**



Part No. 3188-L0  
PT100 4 wire, class A temperature probe, -90°..+350°C; SL=100mm, D=3mm stainless steel, bendable



Part No. 3167-SL02  
PT100 4 wire, class A temperature probe, -80°..+105°C; 3167-Lxx SL=20mm, D=5mm molded plastic



Part No. 3163-L04  
PT100 4 wire, class A temperature probe, -90°..+260°C; 3163-Lxx SL=100mm, D=4mm stainless steel, teflon cable



Part No. 3181-L05  
PT100 4 wire, class A temperature probe, -200°..+220°C; 3181-Lxx SL=100mm, D=5mm steam-resistant, Autoclave

**T/rH PROBES (LH2/WH2)**

Standard ELPRO humidity/temperature probe



Part No. 3087  
Universal probe: humidity and temperature, range: T: -35°..+70°C, rH: 0%..100%

Part No. 3087-B  
Extended temperature range: T: -35°..+110°C

**TRANSMITTERS (SELECTION)**



Part No. 3260-L  
Differential pressure transmitter, range: -50..+50Pa; further measuring ranges on request



Part No. 3271-F  
CO<sub>2</sub> transmitter for wall-mounting, range: 0..2000ppm



Part No. 3271-M  
CO<sub>2</sub> transmitter with external probe, range: 0..10% CO<sub>2</sub>



Part No. 3310-T02  
T/rH transmitter, wall-mounting, range: T: -40..+60°C, rH: 0..100%; also available as model for high frequency applications (3310-T02H)



Part No. 3315-T02  
T/rH transmitter, ductmounting, range: T: -40..+60°C, rH: 0..100%



Part No. 3350-A  
PT100 transmitter, programmable measuring range -200°..+600°C

**ALARM LIGHT**



Part No. 2311-B  
Flasher lamp, xenon flash light, red

**VOLTAGE SUPPLY**

Part No. 2750-V24  
Power supply unit for ECOLOG-NET 24VDC, 0.35A

Part No. 2751-V24  
Power supply unit for ECOLOG-NET 24VDC, 1.6A and transmitter

Part No. 2730-A  
Mounting set, PoE splitter for ECOLOG-NET 24VDC, 1.6A

**EXTENSION CABLES**

Extension cables are available in various lengths. When ordering, replace the «x» in the Part No. with the required cable length.

We recommend the use of shielded cables when the cable is longer than 30 meters.

Part No. 3205-Lxx  
Extension cable for LP4/WP4. M12 coupling/open ends

Part No. 3206-Lxx  
Extension cable for LA8/WA8. M12 coupling/open ends

Part No. 3218-Sxx  
Extension cable for LH2/WH2. DB9/plugon

**SERVICE & QUALITY**

- ISO 9001 quality system
- Vendor and internal audits
- Expert systems
- Own production and development
- Own calibration laboratory
- Modern facilities
- Datalogger service since 1989
- Calibration according to all standards
- Repair service for all products
- Customer calibration service
- IQ/OQ qualifications
- Temperature mapping
- Worldwide distributors
- Return of ELPRO units and batteries for eco-friendly disposal

**DIRECTIVES & STANDARDS**

ISO 9001: 2000  
SGS certificate no. CH98/0013  
ATEX  
SNCH 01 ATEX 3280/Directive 94/9/EC  
EX1, CE 0499  
Approval for EX protection zone 1 (EN 50014 and EN 50020)  
CE  
EN 50081-2 and EN 50082-2  
EN12830/EN13485/EN13486  
Temperature recorder for transport, storage and distribution of foodstuffs

GZ1480  
Exceptional approval for calibration GZ1480/2000 from 10.4.2000, BEV, Austria

**INTEGRATED REGULATIONS AND RECOMMENDATIONS**

GMP/GLP/GAMP 4  
Software validation in accordance with 21 CFR Part 820, Electronic Records 21 CFR Part 11, 21 CFR Part 210/211, 21 CFR Part 110, 21 CFR Part 58  
EG/EU  
Regulation (EC) 37/2005  
Directive 2002/95/EC (RoHS)  
HACCP  
Hazard Analysis Critical Control Points

**EXPLANATION OF ICONS**

- Temperature / humidity / pressure measurement
- Networks
- Display alarm / alarm output / central alarming
- Universal 4-20 mA inputs / 21 CFR Part 11