ECOLOG-NET Network Dataloggers
for Central Monitoring Systems

ELPRO™ DataloggingCompany

ECOLOG-NET

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 4-20 mA 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.

APPLICATIONS AREAS & USES

- Cold storage areas for pharmaceutical products
- Warehouses and cold storage warehouses
- Chilled showcases and storage areas for food products
- Museums, galleries and air-conditionend areas
- Clean rooms
- Monitoring of technical processes

TECHNCAL DATA OF 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
- Evaluation on the PC with elproLOG ANALYZE / ANALYZE QLS 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 or alarm contacts
  - alarms shown on display or via integrated alarm buzzer
- Robust metal housing

ELECT THE RIGHT DATALOGGER FOR YOUR APPLICATION

	Temperatur / Temperature / Température			Relative Luftfeuchtigkeit / Relative air humidity / Humidité relative de l'air			Differenzdruck / Pressure differential / Pression différentielle		Gaskonzentration (CO$_2$) / Gas concentration / Concentration de gaz	
Kühlschränke | Tiefkühler / Refrigerators | Freezers / Réfrigérateurs | Congélateurs	LP4/WP4									
Ultratiefkühler | LN$_2$-Lagerung / Ultra-low freezers | LN$_2$-storage / Réfrigération à température très basse | Stockage LN$_2$	LP4/WP4		LA8/WA8			LA8/WA8		LA8/WA8		LA8/WA8
Inkubatoren / Incubators / Incubateurs	LP4/WP4	LH2/WH2	LA8/WA8		LH2/WH2	LA8/WA8		LA8/WA8		LA8/WA8
Reinräume / Clean rooms / Salles blanches	LA8FL/LP4FL	LH2/WH2	LA8/WA8	LA8FL/LP4FL	LH2/WH2	LA8/WA8	LA8FL/LP4FL	LA8/WA8	LA8FL/LP4FL	LA8/WA8
Raumklimaüberwachung / Room climate monitoring / Surveillance climatisation	LP4/WP4	LH2/WH2	LA8/WA8		LH2/WH2	LA8/WA8		LA8/WA8		LA8/WA8

Legend:
- ⬤ ECOLOG-NET LP4 & WP4
- ⬤ ECOLOG-NET LH2 & WH2
- ⬤ ECOLOG-NET LA8 & WA8
- ⬤ ECOLOG-NET LA8FL & LP4FL

ECOLOG-NET LA8/WA8

Part No. 2722 ECOLOG-NET WA8
(wireless LAN)

Part No. 2720 ECOLOG-NET LA8

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_2, 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)

ECOLOG-NET LH2/WH2

Part No. 2707 ECOLOG-NET WH2
(wireless LAN)

Part No. 2706
Set: ECOLOG-NET LH2 with external T/rH probe (Part No. 3087) and sensor bracket

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

- 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

ECOLOG-NET LP4/WP4

Part No. 2703 ECOLOG-NET WP4
(wireless LAN)

Part No. 2701 ECOLOG-NET LP4

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)
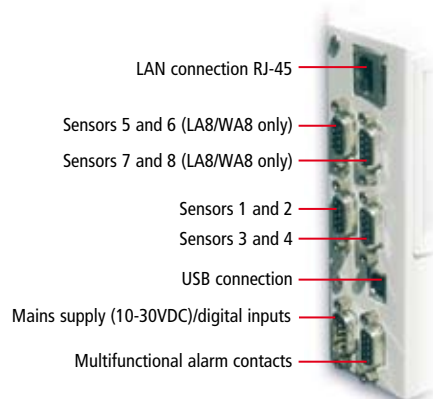
ECOLOG-NET LA8F | LP4F

NEU · NEW NOUVEAU

The clean room compatible design with a front panel made of stainless steel and an integrated indicator (red/green) make the ECOLOG-NET LA8FL/LP4FL **the ideal datalogger for clean room monitoring**.

Part No. 2721-FL ECOLOG-NET LA8FL (8 channels, technical specifications see LA8)
Part No. 2702-FL ECOLOG-NET LP4FL (4 channels, technical specifications see LP4)
Part No. 2692-SET2 Recessed mounting kit for LP4F or LA8F

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.

LAN connection RJ-45

Sensors 5 and 6 (LA8/WA8 only)

Sensors 7 and 8 (LA8/WA8 only)

Sensors 1 and 2

Sensors 3 and 4

USB connection

Mains supply (10-30VDC)/digital inputs

Multifunctional alarm contacts

PT100 PROBES (SELECTION)

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

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

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

Part No. 3181-L05
PT100 4 wire, class A temperature probe,
-200°.. +220°C; 3181-Lxx SL = 100 mm,
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
Universal probe with extended temperature
range: T: -35°..+110°C

EXPLANATION OF ICONS

Temperature | humidity | pressure measurement

Networks

Display alarm | alarm output | central alarming

Universal 4-20 mA inputs | 21 CFR Part 11

TRANSMITTERS (SELECTION)

Part No. 3257-B
Pressure differential transmitter,
range: 0..50 Pa; further measuring ranges
on request

Part No. 3271-F
CO_2 transmitter for wall-mounting,
range: 0..2000 ppm

Part No. 3271-Q
CO_2 transmitter with external probe,
range: 0..20% CO_2

Part No. 3310-T02
T/rH transmitter, wall-mounting,
range: T: -40..+60°C, rH: 0..100%

Part No. 3315-TO2
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
Alarm flash red, for wall- or ceiling
mounting

Part No. 2311-F
Alarm flash red,
for wall-mounting

Part No. 2311-FS
Alarm flash red
with siren,
for wall-mounting

VOLTAGE SUPPLY

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

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

Part No. 2730-A
Mounting set, PoE splitter for
ECOLOG-NET 12 VDC, 12 W

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

NORMES & STANDARDS

ISO 9001: 2000
SGS certificate no. CH98/0013
ATEX
SNCH 01 ATEX 3280/Directive 94/9/EC
EX1, CE1258
Approval for EX protection zone 1
(EN50014:1997 +A1 +A2,
EN50020:2002 and EN1127-1:1997)
CE
EN61000-6-2:2001 und EN61000-6-4:2001
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
& RECOMMENDATIONS

GMP/GLP/GAMP 5
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

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