



ECOLOG

Connected Monitoring
for Rooms and Equipment

ECOLOG Plug&Play

Up to 50 measurement points without software or IT installation.

ECOLOG Unlimited

Hundreds of measurement points in an enterprise environment; integrates fully with other systems.

Countless Applications: from Easy Setups to Complex, Multi-Room Facilities.

ECOLOG Plug&Play

The elproMONITOR software, preinstalled on the ECOLOG-PRO Base, connects up to 50 measurement points using wired or wireless communication and measurement modules.



CONFIGURATION EXAMPLE: WAREHOUSE

Ambient and cold storage room, both to be monitored with radio modules – **38 measurement points**

- > elproMONITOR on ECOLOG-PRO Base
- > 5 x LR8 data logger
- > 4 x RTH1i wireless sensor
- > 8 x RT2e wireless sensor
- > 14 x RT1e wireless sensor



COST EFFICIENCY

- > All-in-one, calibrated and validated, Swiss engineered system results in lowest TCO

COMPATIBLE, SCALABLE, AND ALWAYS ACCESSIBLE

- > Wired or wireless sensor options
- > Compatible with ECOLOG-NET and the powerful new ECOLOG-PRO loggers

CONVENIENCE AND USABILITY FOR ANY SIZE FACILITIES

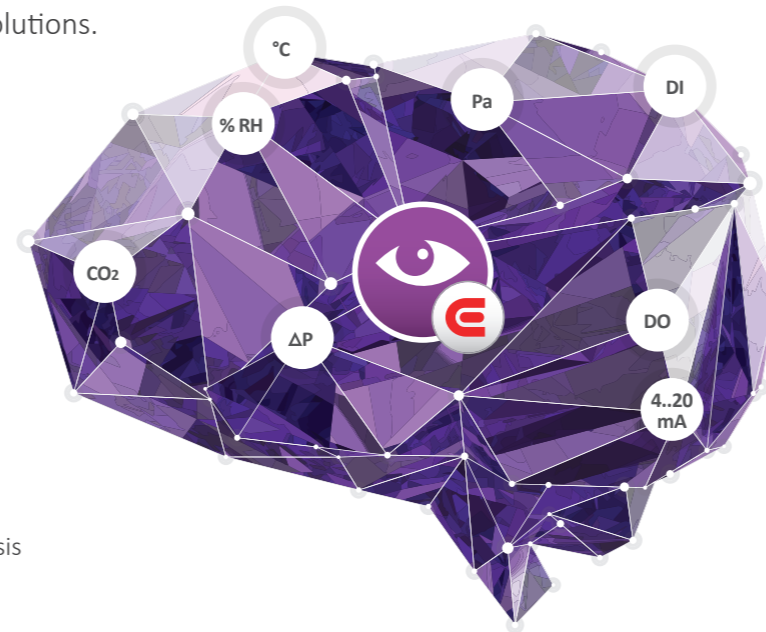
- > No installation required – just plug and play
- > Sensor-based configuration, powerful user management, automated notifications, and reporting

elproMONITOR

elproMONITOR is the central monitoring software used in both solutions.

- > **100 % COMPLIANT**
- > **EASY TO USE**
- > **MODULAR & SCALEABLE**

- > Sensor-based configuration
- > Never lose data
- > Fully GAMP 5 validated
- > Full audit trail
- > Automated deviation analysis
- > Get report via email
- > Visualize anywhere
- > Manage through rights & roles
- > Compatible with existing ECOLOG-NET
- > Compatible with new ECOLOG-PRO



- MEASURE**
- STORE**
- ASSESS & REPORT**
- ALARM**
- MANAGE DATA**



WEB-BASED TECHNOLOGY

- > Combined with sensor-based configuration provides full flexibility

AUTOMATED DEVIATION ANALYSIS

- > View, comment & acknowledge excursions
- > Convenient and compliant

VISUALIZE STATUS

- > Of your facility and view it from any device worldwide via browser



PROJECT MANAGEMENT

PROJECT SERVICES

Customizing and installing complex monitoring systems can be a challenge. ELPRO's highly-trained project managers can help. No matter the issue: unclear requirements, complex architecture or an interface to another system – tell us what you need and we will support you.

ON-SITE-SERVICE

We help you to operate your system in a GxP compliant manner: our technicians visit your facilities for calibration, adjustments and maintenance. Our on-site service team ensures the liability of your data: now and for the future.

ECOLOG Unlimited

The software elproMONITOR, integrated into your IT infrastructure and database, monitors hundreds and thousands of measurement points.



CONFIGURATION EXAMPLE: PHARMA PRODUCTION

Pharmaceutical production facility with four clean rooms, several labs, and storage areas – **516 measurement points**

- > elproMONITOR on your IT infrastructure
- > 23 x LBR communication module
- > 60 x 4MA module
- > 84 x 4PT module
- > 12 x 4DI module
- > 18 x 4DO module



COST EFFICIENCY

- > Monitor environmental conditions in your research, production, and storage facilities at the lowest TCO

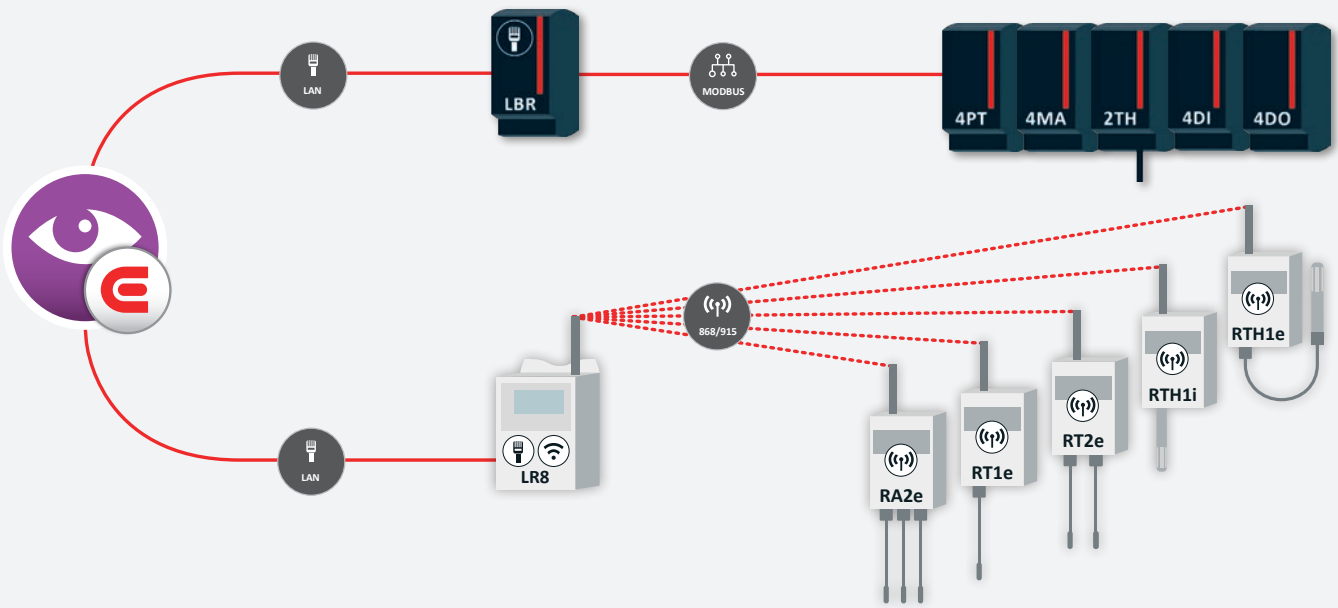
COMPATIBLE, SCALABLE, AND ALWAYS ACCESSIBLE

- > Modular, scalable solution with wired or wireless sensor options
- > Compatible with ECOLOG-NET and the new ECOLOG-PRO loggers

ENTERPRISE CAPABILITIES

- > Integration with your existing user management (Active Directory)
- > Manage various sites with a single integrated solution
- > Full access to server and database infrastructure allows for flexible integration with any other system

ECOLOG-PRO and ECOLOG-NET Modules



elproMONITOR RUNNING ON

- > ECOLOG-PRO Base: ECOLOG Plug&Play
- > Your IT infrastructure: ECOLOG Unlimited

ECOLOG-PRO LBR

- > Communication module connecting up to 32 measurement modules*
- > Centralized power supply for all connected measurement modules
- > Ethernet connection

ECOLOG-NET LR8

- > 8-channel data logger for wireless sensor signal (433/868/915 MHz)
- > 2 additional digital inputs
- > Ethernet connection
- > Local Memory capacity for up to 64,000 values

* depending on measurement module type and connected transmitters

ECOLOG-PRO 4PT

- > For up to four Pt100 temperature probes
- > Range: -200°C to 200°C, accuracy: ±0.2°C
- > Local data storage for up to 10,000 values

ECOLOG-PRO 4MA

- > For up to four 4-20mA transmitters, e.g. for combined temperature/relative humidity measurements, monitoring of CO₂ and differential pressure, etc.
- > Local data storage for up to 10,000 values

ECOLOG-PRO 2TH

- > For up to two combined temperature/relative humidity probes

ECOLOG-PRO 4DI

- > With four digital inputs, e.g. for monitoring of door opening

ECOLOG-PRO 4DO

- > With four digital contact outputs
- > e.g. for local alarming via signal lights or audio alarm
- > Can act as a watchdog monitoring system

ECOLOG-NET RT1e

- > Wireless sensor for one external Pt100 temperature probe for ECOLOG-NET LR8

ECOLOG-NET RT2e

- > Wireless sensor for up to two external Pt100 temperature probes for ECOLOG-NET LR8

ECOLOG-NET RTH1i

- > Wireless sensor including one internal combined temperature/relative humidity probe for ECOLOG-NET LR8

ECOLOG-NET RTH1e

- > Wireless sensor for one external combined temperature/relative humidity probe for ECOLOG-NET LR8

ECOLOG-NET RA2e

- > Wireless sensor for up to two 4-20mA inputs for ECOLOG-NET LR8



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A total of twenty research groups, 500 sensors, both wireless and wired, in 10 different locations – ELPRO helps us manage the challenge.

QUALITY MANAGER
Pharma Company