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The Datalogger Specialists

Cleanroom Monitoring

ECOLOG-NET LA8 and LAN Network



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Cleanroom Monitoring



Cleanroom Monitoring - with solutions from Elpro

The Elpro data logging systems are the ideal solution for monitoring all relevant cleanroom parameters: Information such as CO₂ level, pressure, differential pressure, temperature or relative humidity are continuously recorded and securely stored.

The standard networking technology used (TCP/IP) allows a seamless integration into your existing LAN/WLAN networks. This provides around-the-clock monitoring of your critical cleanroom parameters using elproLOG software monitor.

While observing regulatory compliance to FDA 21 CFR 11, GMP, GAMP4 and GLP, the validated Elpro Monitoring Solution offers you all the security you need when monitoring your regulated environments.

Monitoring cleanroom conditions has never been so easy and secure.

Data logging systems for Cleanrooms

The ECOLOG-NET LA8 data logger is designed for operating with all commercially available 4..20mA transducers. To minimize installation effort, the transducers can be loop-powered.

For GLP/GMP compliant Cleanroom documentation, up to eight transducers can be connected to one ECOLOG-NET LA8 data logger.

Technical Specifications of the ECOLOG-NET LA8

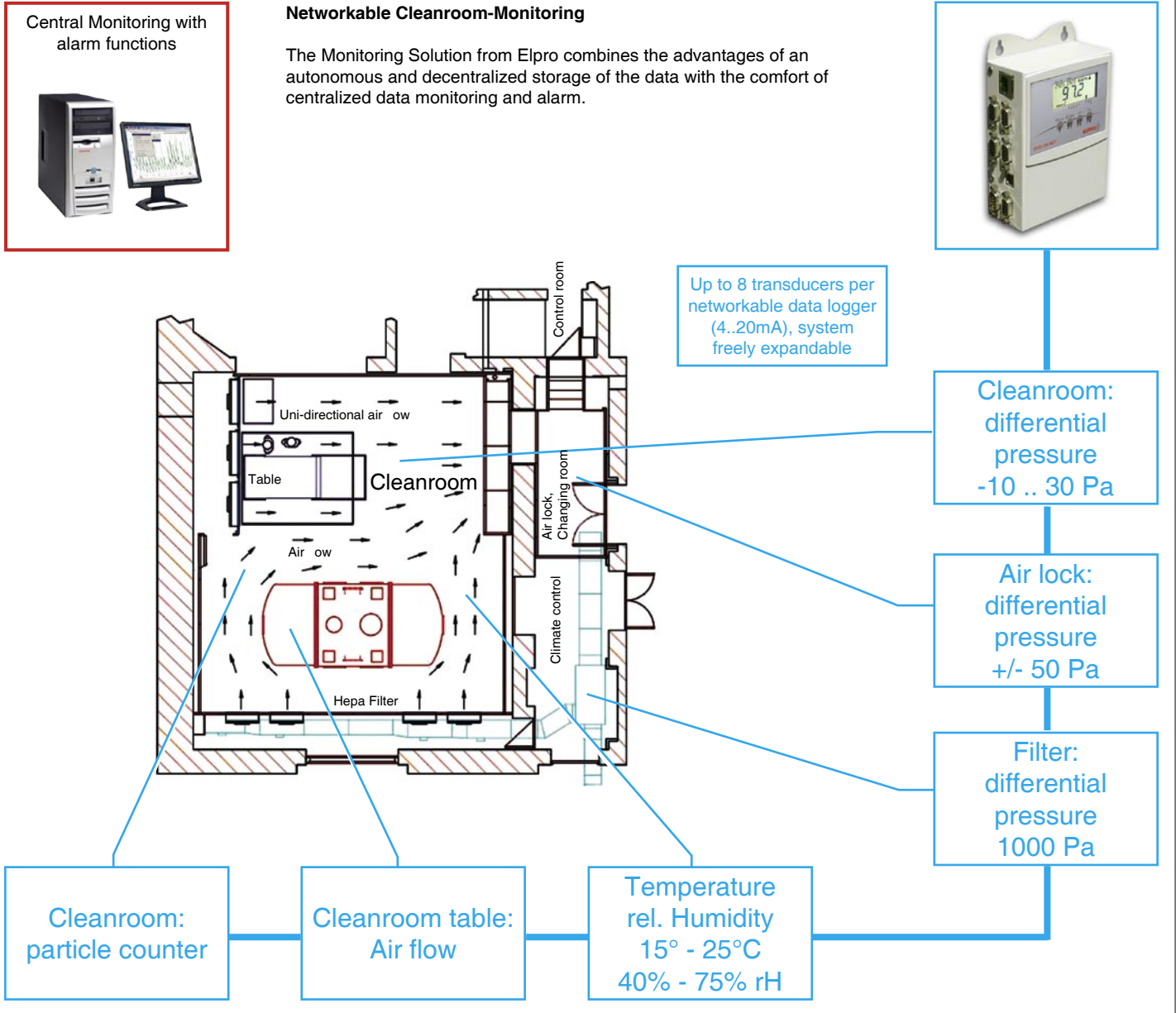
- Up to 64'000 readings
- LCD displaying informations like readings, date/time, alarm
- 8 inputs for 4..20mA transducers
- 2 digital inputs for start trigger, alarm delay/reset
- Multi-purpose alarm output

Central Monitoring with alarm functions



Networkable Cleanroom-Monitoring

The Monitoring Solution from Elpro combines the advantages of an autonomous and decentralized storage of the data with the comfort of centralized data monitoring and alarm.



Cleanroom Monitoring



The Central Monitoring System from the datalogger specialists.

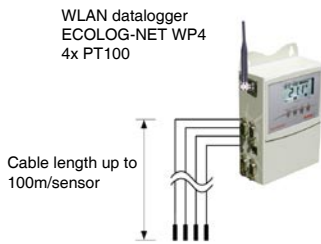
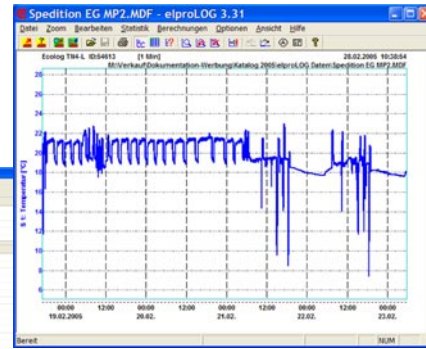
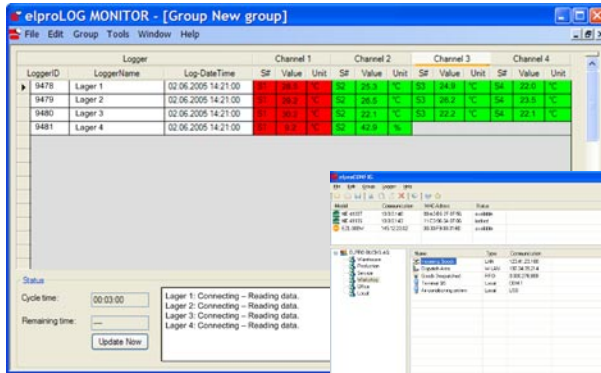
In the course of increasing interconnectedness, Centralized Monitoring becomes more and more important. The Monitoring Solution from ELPRO offers all the advantages of decentralized, autonomous and secure data logging. This solution provides centralized monitoring and alarm capabilities, collection and analysis of your data.

Feel confident and protected. Monitor all environmental conditions in your facility, and have instant access to all of your data right from your desktop computer. Whether you are on or off-site, the sophisticated alarm capabilities of the ELPRO Monitoring Solution will notify you in case of any problem.

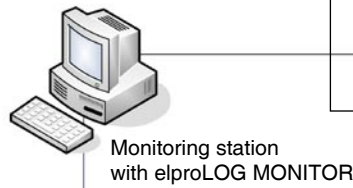
How is a Central Monitoring System established?

The setup of a Central Monitoring System is performed with the following easy steps:

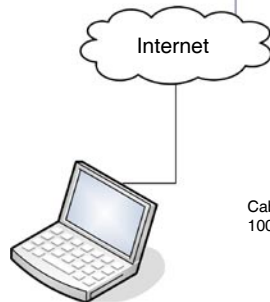
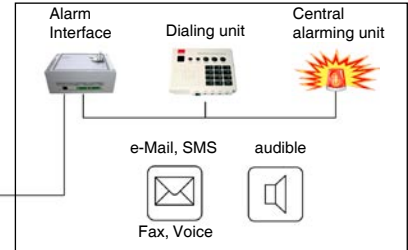
1. Analysis of the facility situation and setup of the system specifications. Often a temperature mapping is conducted in this stage of the project.
2. Selection of the dataloggers and the appropriate sensors.
3. Definition of the layout of dataloggers and sensors.
4. Definition of the alarm concept (local alarms, alarm forwarding).
5. Placement of the dataloggers and the sensors, IQ/OQ.
6. Setup of the Monitoring-Software, Software IQ/OQ.
7. Setup of the dataloggers and alarm limits.
8. Start-up of the system and test of the alarm system, IQ/OQ.
9. Training of the personnel.



WLAN Access Point

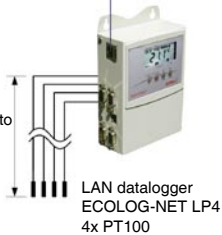


Alarm configuration



Data and alarm analysis

Cable length up to 100m/sensor



LAN datalogger ECOLOG-NET LP4 4x PT100



LAN datalogger ECOLOG-NET LH2 1 or 2x combined measurement of temperature and rel humidity



LAN datalogger ECOLOG-NET LA8 8x 4..20mA



From the specification to the ready-to-use System - Turnkey solutions from Elpro

Elpro is a leading provider of advanced data logging systems used in pharmaceutical, laboratory, logistics, food storage and climate control industries. High-quality products, sophisticated calibration- and service offering with over 15 years experience, make Elpro your full solution provider with setup and service of your Cleanroom Monitoring System.

The Central Monitoring System from ELPRO is an easy and intuitive system which provides a complete solution for validated environmental monitoring.

Extensive range of accessories:



Temperature and relative humidity
Various transducers for different applications

Differential pressure
-10Pa..+60Pa, +/- 50Pa, 100Pa, 500Pa, 1000Pa

Pressure / barometric pressure
Transducers with different ranges

Gases
CO₂ transducer 0..20% CO₂
Various sensors for O₂, CO₂ and other gases

Particles
Elpro has no particle counters in the product range. However, we can assist you or connect your particle counter to the Elpro data logger system.

Range of ELPRO dataloggers:



ECOLOG quality dataloggers
For temperatures (NTC and PT100) from -200°C .. +550°C, relative humidity 0%..100%, programmable alarm functions, one-year memory capacity (64,000 measured values), large display and multifunctional keypad.

also available with
Ex certification



The ECOLOG NET logger
LAN/WLAN networkable data logger for monitoring temperature, rel. humidity and 4..20mA transducers signals. Multi channel logger system with high data security and sophisticated alarm features. Can form a central monitoring system over the LAN/WLAN.



Universal dataloggers HOTBOX-SE
Freely programmable units of measure, e.g. pressure, CO₂, m/sec. Memory capacity for 64,000 measured values, autoscroll display, sensor supply from integrated batteries 2 x 9V = 18V, external sensor supply possible.



HAMSTER R
RFID / radio data logger system. A unique system for automatic read out and alarming. Depending to type with internal or external sensors. Memory capacity for 13,000 measured values.

Contact us for information about data loggers, sensors, accessories and alarm devices.

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Elpro-Buchs AG, EN1003Eb, 08.2005

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