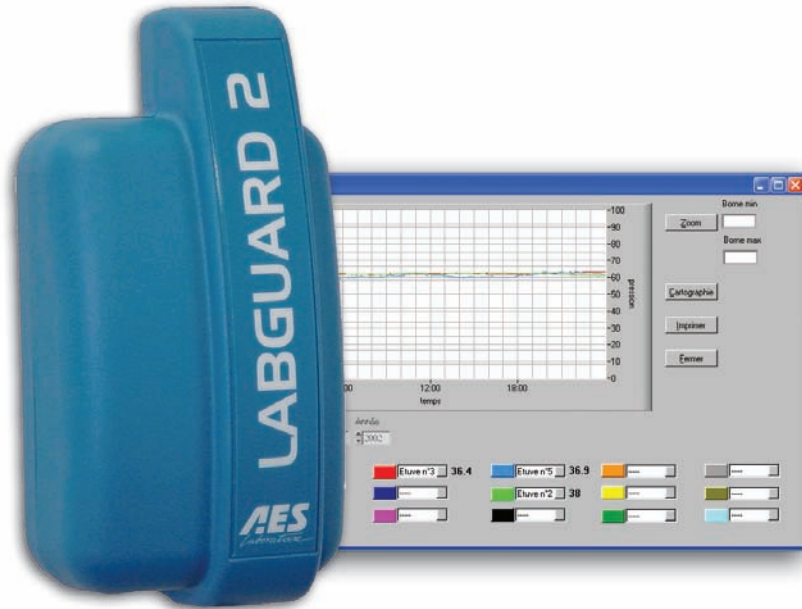




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Environmental Monitoring Labguard Monitoring System



Automatic temperature monitoring for your laboratory with full traceability of results and complete audit trails

Other parameters can be measured including humidity, pressure and CO₂

Designed specifically for laboratory installations

Labguard is fully FDA CFR21 P.11 and GLP compliant

Networked installations allow multiple sites or locations to be monitored using one system

Labguard is a wireless temperature monitoring system offering fast and simple installation. It continuously monitors equipment and automatically alerts the user to any difficulties which may arise.

Labguard can monitor temperature in real time compared to the typically once-or-twice-daily checks using manual methods. Labguard is easy to calibrate, provides all the secure information necessary for documentation purposes and is compatible with all accreditation systems.

Labguard means that staff no longer have the chore of recording temperatures, freeing them for more profitable work. Labguard can monitor any number of items from only one piece of equipment up to a thousand pieces – you only buy as many transmitters and probes as you need.

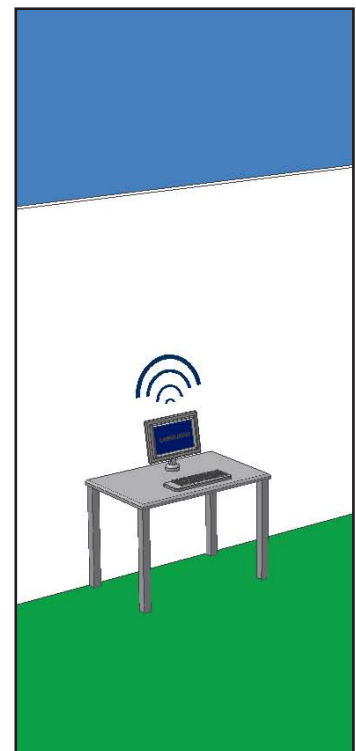
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Labguard provides you with early detection of problems

- Standard methods could mean a significant delay before a problem is discovered
- Early detection helps prevent loss of experimental data and products – for example blood banks, reagents and food stocks
- Comprehensive data collection allows results to be assessed scientifically, preventing invalidation of results in cases of slight variance

Disadvantages of using conventional thermometers

- Manual reading is a time-consuming process, often neglected due to resource constraints or lack of time
- Thermometers can be difficult to read, especially when placed in a water bath – leading to incorrect readings and miscalculated results
- Thermometers are fragile with a high risk of breakage
- Thermometers are costly to calibrate
- For accurate reading, thermometers should be placed in glycerol which can be troublesome
- Offset values need to be calculated and taken into account whenever a reading is taken



What can be measured?

An individual transmitter can be specified to accommodate either one or two temperature probes measuring between -80°C and $+80^{\circ}\text{C}$

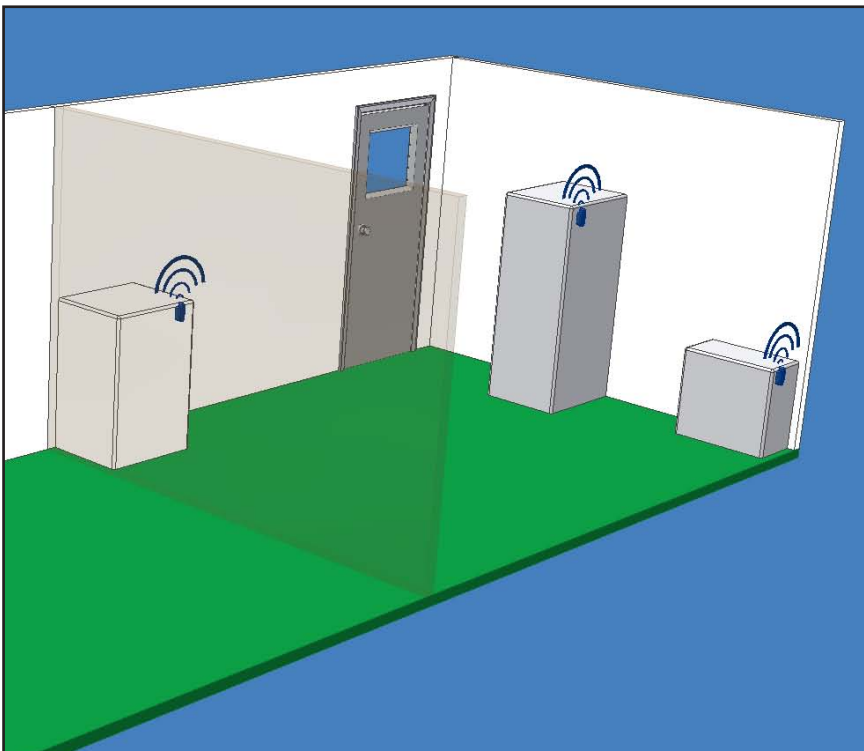
An individual transmitter can be specified to accommodate one of the following probe types:

- Elevated temperature and pressure sensor for use within autoclaves
- Oxygen
- Carbon dioxide
- Pressure
- Humidity
- Door sensors



Trouble-free installation

- Labguard is a wireless system. Transmission of data is by ultra low power radio signal eliminating the need for cable connections between probes
- The Labguard system can be easily and simply installed, serviced and calibrated by our engineers
- System modularity enables additional devices to be added without interrupting data collection
- Instrumentation can be re-located easily within a laboratory without system interruption



Transmitters are mains or battery operated – if running solely on battery power, a transmitter will function for at least 12 months on standard settings

Internal data memory ensures continuous monitoring even if mains power supply fails

Additional devices can be easily added to the system without disturbing the existing installation

Flat probe cables are available to fit neatly around door seals eliminating the need to drill holes

Operating system software allows for stand-alone or networked installation

Networking allows data to be examined at various sites and locations across an organisation

Data can be backed up automatically

All Labguard software can generate reports and graphs

An optional temperature mapping module can be added

Quality Assurance made simple

- Labguard is FDA CFR21 P.11 and GLP-compliant
- Labguard offers users complete traceability of results
 - Labguard provides a complete audit trail
- The system can be calibrated in accordance with UKAS requirements
- A calibration kit including a reference probe and operating software can be purchased to enable calibration to be performed in-house with no interruption of monitoring functions
 - Temperature probe accuracy is $\pm 0.2^{\circ}\text{C}$
- Labguard fits easily into an IQ.OQ.PQ structure

Standard Features

Wireless installation
Up to 1000 channels can be monitored
Calibration is simple and rapid
Monitors freezers, incubators, water baths, autoclaves, anaerobic workstations, media preparators, etc.
Real-time monitoring where users can see all monitored parameters at a glance
Users are warned by alarm should any parameter fail to meet the specification
Compliant with 21CFR Part 11
All data is secure for full traceability

System

T00002 Network software
T00003 Additional visualisation licence for networked installations
T00020 RS232 radio receiver

Options – temperature monitoring

T00030 Single probe radio transmitter (with battery and electrical supply kit)
T00031 Double probe radio transmitter (with battery and electrical supply kit)
T00032 Single channel analogue (4-20mA) radio transmitter (with battery and electrical supply kit)
T00034 Mains power supply unit
T00106 PT100 or thermocouple converter (4-20mA) (with electrical supply kit)
T00042 PT100 probe with metal sheath (-80°C to 260°C)
T00048 Thermocouple probe (-200°C to 1200°C)

Options – humidity monitoring

T00032 Single channel analogue (4-20mA) radio transmitter (with battery and electrical supply kit)
T00034 Mains power supply unit
T00045 0-70% relative humidity sensor
T00046 0-100% relative humidity sensor
T00111 24 volt power supply

Options – CO₂ monitoring

T00032 Single channel analogue (4-20mA) radio transmitter (with battery and electrical supply kit)
T00034 Mains power supply unit
T00047 0-20% carbon dioxide sensor
T00111 24 volt power supply

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