Monitoring & Traceability of Temperatures
and other Physical Parameters

eviSENSE
labguard ®

sysmex

Your partner in Switzerland:

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Monitoring that makes sense!

AES CHEMUNEX offers a complete monitoring and traceability solution including software, hardware and services to guarantee an effective and smooth operation no matter how complex the monitored installation.

> AES CHEMUNEX Expertise

Thanks to the experience gained from installing several thousand systems throughout the world, the development team at AES CHEMUNEX and its partners specialise in information and communications systems and have created probably the most advanced, reliable and ergonomic system available on the market.

The flexibility provided by the combination of Labguard® hardware and eviSENSE® software ensures maximum efficiency of your monitoring system, independently of the size and configuration of the monitored facility.

> Maintenance contracts Installation
IQ, OQ, PQ Qualification/Hot-line/Service

Support and service are available worldwide directly from us or through our network of authorised partners.

> Dedicated Team of Specialists

A team of informatics, electronics, metrology, and quality engineers continuously work on the further development of eviSENSE®/ Labguard® systems to guarantee the evolution of your system.

In addition to usual alarm notification, eviSENSE® can display alert messages on any PC connected to the network (Intranet-Internet), without any intervention from the user, through the use of widgets (1). The optional touch screen SENSEviewer® (2) allows the remote display of a selection of channels. You can install it wherever you need (Wifi or network connection).

> Laboratories
Industrial plants
Hospitals
Storage facilities
Cold chain

- *Secure your samples*
- *Monitor storage and transport conditions*
- *Prove the quality of your procedures*
- *Make your audits and accreditations easier*
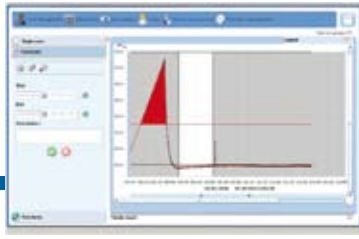- *Comply with standards: ISO 17025, ISO 15189, ISO 7218, EN 12830, GMP, GLP...*

(1)　(2)

AES CHEMUNEX has designed and manufactured temperature monitoring systems for more than 15 years.
More than 3 000 Labguard® systems are in service worldwide!

Real-time Monitoring

- Real-time sending of measured data to the central system.
- Supplementary storage of recorded data in transmitter's memory for highest security in the case of power outage or system-wide failure.
- Measurement interval as fast as 1 sec (technology-dependent).

or in datalogging mode

- Measured data are stored in the transmitter's memory and sent to the central system once or twice a day (configurable).
- Real-time alarming.
- Datalogging mode enables self-powering of transmitters

Traceability and security

- Data are automatically stored in a professional database and locally in transmitters memory.
- Traceability of all actions (audit trail).
- Encryption of all data and data integrity control.
- Qualification and 21CFR Part 11 compliance.
- IQ, OQ, PQ protocols available (on-site qualification service also available).

Alarm notification*

- On-call schedule management.
- Remote alarm notification via cell phone, SMS, E-mail, Fax.
- Multi-modem compatible (analogical, GPRS...).
- Call cascades.
- Voice on IP.
- Vocal synthesiser.

* Depending on the version of eviSENSE®, see detailed table

Measuring range
Number of monitored channels*

- Up to 2000 channels.
- Complete range of digital or analogue sensors for temperature and almost all physical parameters.

Easy installation,
cost effective and evolutionary.
Autodetection

- **Automatic detection** of connected hardware provides huge time savings.
- Multiple transmission technologies (wireless, network or BUS) simplify the installation. No tedious and expensive wiring needed.
- Evolutionary: new measuring points can be easily added at any time.

Power with control

- Advanced database.
- User profile management (use of existing usernames and passwords).
- Maintenance management (network status, network-connected hardware).
- Database management (restoration, archiving, backup...).
- Hardware management.
- Maintenance tool for measuring instruments (sensors, transmitters).

Display

- **4 display modes:** tabular reports, graphs, blocks and map (localisation of monitored points).

User groups/departments mode*

- Management of specific group names and passwords, group-specific management of access rights, channel displays and alarm notifications

Metrology

- **Calibration/adjusting***
  - Setting of the number of adjusting points depending on the sensor type.
  - Calibration while monitoring, system shutdown not necessary
  - Storing of calibration data in the eviSENSE® database
  - Calibrate and adjust with a non-connected laptop PC (data synchronisation by reconnecting)
  - Calibration probes with full traceability to international standards (NIST, UKAS, DAR...) available
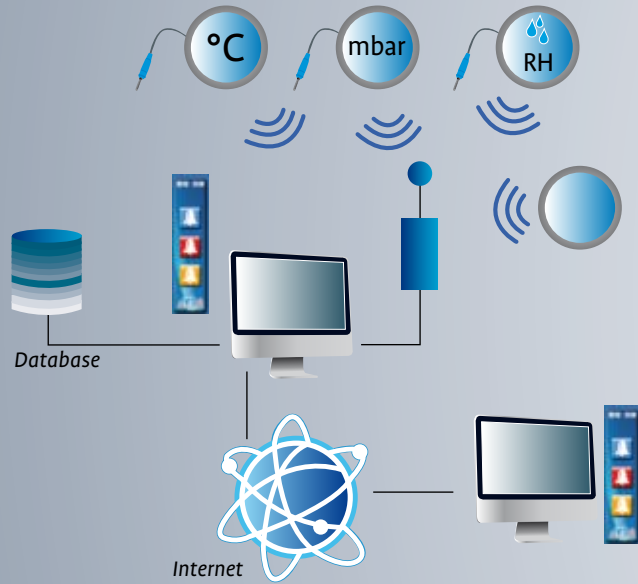
- **Mapping 2 to 15 points***
  - Automatic mapping including report generation (no operator needed)
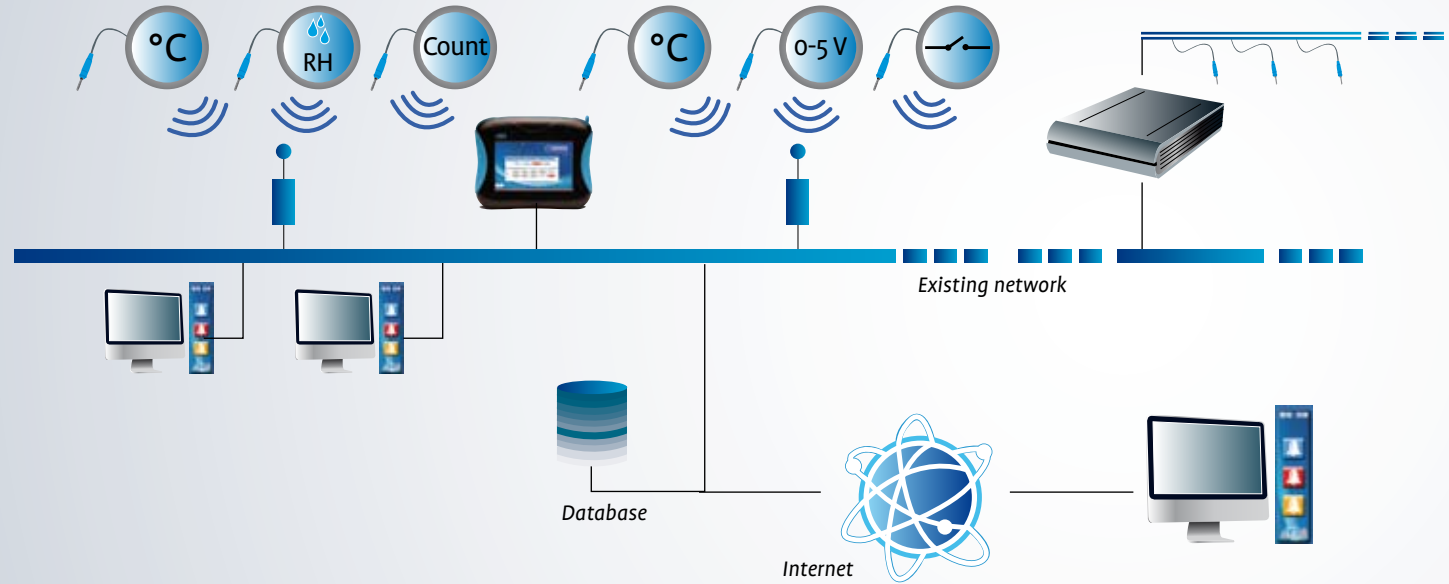 - NFX 15140 compliant

Flexibility

Combining eviSENSE® powerful features with Labguard® multiple transmission technologies guarantees the perfect suitability of your monitoring solution for your present and future needs.

> 1

°C mbar RH RH

Database

Internet

> 2

°C RH Count °C 0-5 V

Existing network

Database

Internet

> 3

1/ **Radio frequency transmission.** Installation of the eviSENSE® software with its database on a PC connected to the radio receiver (network installation possible). Access possible via Internet.

2/ Installation of the eviSENSE® software with its database on an **Intranet server.** Unlimited access via the existing network.

3/ **Intelligent BUS installation**
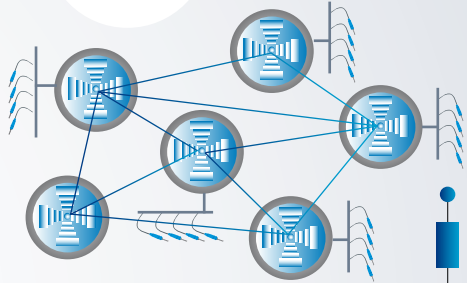Connection of up to 40 sensors per transmitter, internal memory, contact closures, etc...

High flexibility to suit your monitoring needs and your budget!

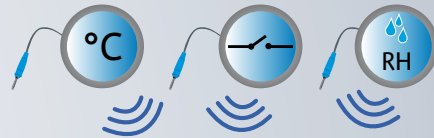**Different technologies can be mixed and are compatible with the eviSENSE® software**

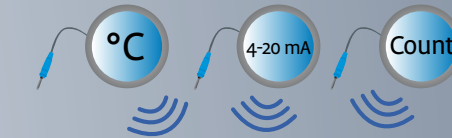Temperature - Humidity - CO$_2$ - Pressure - Particle count - Contact closure - 0-5 V - 4-20 mA - etc...

°C   RH

°C   4-20 mA   Count

Internet gateway

Database

Internet

Recorders Dataloggers

Storage

Transportation

Cold chain

A complete range of data loggers for temperature and/or humidity, with or without display, is available. This range is fully compatible with eviSENSE®.

4/ 2.4 GHz reliable mesh network of transmitters (4 inputs, display).

5/ Web hosted monitoring solution. No local software to install! no IT maintenance!

6/ GPRS gateway for the monitoring of facilities without network-connection.

Alarm notifications and display of critical points
Intelligent alert and display solutions!

- Automatically get an alarm message (Widget - RSS feed) on every PC connected to the network
- Remote display of alarms or monitored points groups with the SENSEviewer® touchscreen. Simply connect the SENSEviewer® screen where you need (network or Wifi connection)
- Alarm notification via SMS, E-mail, Fax... (option)
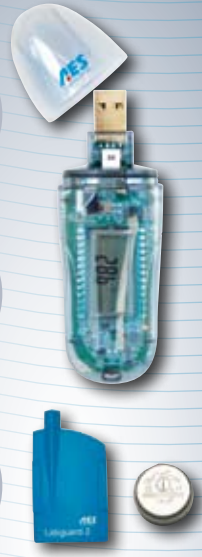- Radio-controlled remote audible and visual alarms

> eviSENSE® range

VERSION	Express	Pro	Elit
Maximum number of channels	20	unlimited	unlimited
Preactivated channels	20	50	50
Supplementary 10 channel packs	NA	Option	Option
Hardware compatibility	Labguard®2 + Tomkey®	all*	all*
Groups option	NA	Option	included
21 CFR part 11 compliance	NA	Option	included
Remote alarm notification	NA	Option	Option
Mapping option	NA	Option	Option
Adjusting option	NA	Option	Option

* Labguard®1, Labguard®2, TomProbe®, TomKey®

Complete range of maintenance contracts:
Remote maintenance, on site support, preventive and curative maintenance...
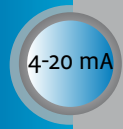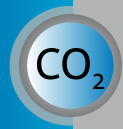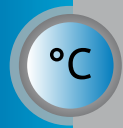
Access via the Web

- Network installation, unlimited number of access PCs (no licence)
- Simply use Internet explorer = no further program to install
- Data consultation and settings
- Widget (RSS feed)

WEB hosting*

Your private eviSENSE® space is located on our AES CHEMUNEX secured server. No installation needed, no IT maintenance!

* Option

> Discover the range of available services on www.evisense.com
Installation, training, on-site set up
Dedicated hot-line
Maintenance contracts
Metrology services
Qualification
Technical support

°C

RH

CO_2

Count

0-5 V

4-20 mA

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