

Registration – Monitoring – Alarming

More than 15 years of experience and development has gone into the XiltriX® laboratory monitoring, data logging and alarming system. XiltriX® can record and alarm the temperature of all laboratory storage equipment, in real time, 24/7, locally, via an internal network or via the internet. It can do the same for many other parameters, for example door opening, pressure, CO₂ and O₂. There are many different options for failure reporting and follow-up protocols - XiltriX® will always provide a solution for your situation!



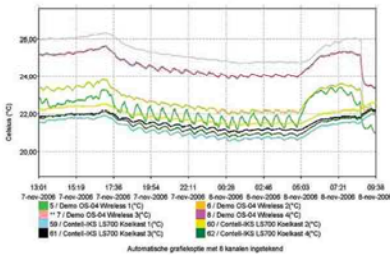
REGISTRATION | MONITORING | ALARM SYSTEM



Many major teaching hospitals have been using XiltriX® to their complete satisfaction for many years. In these installations a significant number of departments and measuring points are registered and monitored, all connected to one single server. Sensor data can be collected through a mix of wired, network and wireless connections and accessed simply by logging on to the system via the intranet or internet.

CO₂ monitoring

XiltriX® uses a unique and accurate method of CO₂ monitoring. Samples from up to 16 incubators can be analysed by a single CO₂ sensor inside a CO₂ substation. Each sample channel is measured every 20 minutes. Humidity is automatically removed by moisture separators. The internal CO₂ sensor is automatically calibrated using outside air and a calibration gas supply. This way the CO₂ measurement is always accurate regardless of drift of the CO₂ sensor or changes in outside conditions. Typically a calibration is performed three times a day (e.g. at 8 am, 12 am and 6 pm). At weekends calibrations can be skipped, preventing alarms if the calibration gas runs out during the weekend.



This system has been successfully used by many international IVF and cell culture laboratories to monitor the long term stability of their CO₂ incubators. Because up to 16 incubators can be monitored with 1 substation, the monitoring cost per incubator is very low.

Report

Historical reports can be generated in seconds using one of many standard menu-driven options. Graphs, numerical values and statistical information are available from any sensor at any time. Graphs are automatically electronically signed and can easily be printed. Up to 8 channels and up to 2 different measurement parameters can be displayed simultaneously on a single graph. This way equipment can be compared and deviations can be spotted prior to failure of the device.

All numerical and statistical data can be exported to Excel compatible files. Statistics include all commonly used values including MKT (Mean Kinetic Temperature).

Traceability

Any changes to the system performed by an authorised user are logged in the appropriate audit trail log. The data is time stamped and user name, old value, new value and even the IP-address of the user is saved. When the logs are printed, all pages have an electronic record and signature box for signing the documents. All saved measurement data are protected from changes. The user has to enter the cause of the alarm and what corrective actions were taken to reset it. This information is stored in the alarm logs and can easily be retrieved, printed and exported.

Alarming

In case of equipment failure, XiltriX® can activate alarms. A variety of alarm outputs can be used, ranging from a light or siren to an e-mail, beeper or SMS. What's more, you can decide when and where the alarms are reported. XiltriX® will find you, not the other way around. The SMS option includes bi-directional capability by which acknowledgement messages can be sent to the system. Messages can be cascaded from one user to another in the event of alarms not being acknowledged. Using SMS you can remotely check the system integrity, and check measuring values at any time.

Calibration/validation

The XiltriX® system can be validated to the highest accreditation standards. It meets the strictest standards including GLP, GMP, FDA (21 CFR part 11) and CCKL. An IQ and OQ can be performed at installation, fully documenting the software's behaviour. When the validation is successfully completed, you can rest assured that the software performs exactly according to the functional specifications. Calibration can be performed according to the appropriate accreditation norms. Norms can vary from country to country. IKS can supply calibrations according to the Dutch RvA accreditation standard. The RvA is recognized by the IAF and ILAC. Contact your local dealer for a calibration quotation.