



HETTICH BENELUX MONITORING SYSTEM

- Monitoring of temperature, rH, CO₂, O₂
- **No monthly or annual software licence fees**
- Data security by means of SQL database
- Back up of your data for minimal 24 hours
- Microsoft components
- Compliant with ISO 15189, ISO 17025, GMP, FDA CFR 21 part 11, GAMP-5 and JACIE.



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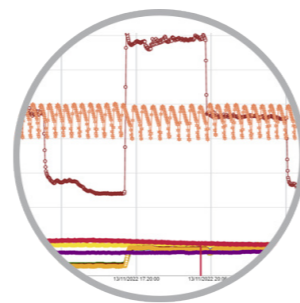
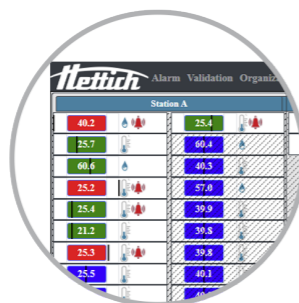
More than 30 years ago we launched our first monitoring system called 'Elbanton Temperature Registration System'. What started out as a system for monitoring temperature has developed into a monitoring system for much more. Nowadays the system is called SYCL (System for Climate Management) and it is suitable for monitoring i.e. temperature, relative humidity, pressure, CO₂ and O₂ as well as digital signals.

SYCL is designed to be compatible with the existing Temperature Registration System. The advantage being, that you do not need adjustments in your hardware components. Only a software update is needed to be compatible with SYCL.

With common monitoring systems, you also face monthly or annual software licence fees after purchasing and installing the system. One of the major advantages of SYCL is that this is not an issue. When purchasing SYCL you only pay an one-off licence fee.

SYCL, STANDARD FEATURES:

- **One time software licence fee**
- Up to 24 measurement points per substation; multiple substations possible.
- An accuracy of 0.1 °C.
- Uses only four-wire PT-100s class A.
- Point in time back up.
- Multilingual (Dutch & English).
- 2 users simultaneously in the system, unlimited user access (rights structure).
- Web-based.
- Microsoft components.
- Data security by means of SQL database.
- Audit trail.
- Compliancy.
- Windows authentication.*
- Notification of an alarm including notification when the alarm has been cleared.*
- Customization of the text fields in e-mail/sms.*
- Possibility for labelling the measuring points with short text.*



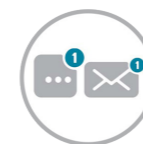
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Hettich Benelux supplies and assembles all necessary materials to connect the measuring points to SYCL. The sensors are built into the equipment and connected to a substation. The PT100 is of class A quality and equipped with a four-wire connection to ensure high accuracy.

The PT100 sensors can be built into all laboratory equipment. The mA inputs can be used for combined humidity and temperature, flow meters, particle counters etc.

In addition to the analogue inputs, the SYCL substation also has 16 digital inputs which can be used for door contacts, water baths and dual setpoint control for incubators. In addition, the SYCL substation has 8 potential free contacts to which a light, buzzer, door signal or telephone connector can be connected.

The SYCL software is centrally installed on the customer's (virtual) server.



The e-mail and SMS licence allows the SYCL software to send a message in the event of an alarm notification. Purchasing and managing the SMS bundle is up to the user. If you also take out a maintenance contract with us, we will take over the purchase and management from you.



Wireless SYCL does not use (general) WIFI because it is prone to interference. To ensure a stable network, we have chosen to use our own wireless network. The network we use is the 433 Mhz but on its own part of this spectrum.



The audit trail records all events and actions. This data is retrievable at all times.



On alarm, the lamp and buzzer come on. A mute button allows the buzzer to be muted. A call tree can also be set up to quickly reach a certain group of people by phone. An alarm notification is repeated until the notification is received correctly and the relevant alarm is reset.



A backup within SYCL is standard up to 24 hours. By installing a SD card, you can extend the time and data of the backup.



Optional: a service contract for SYCL. This includes an annual functional test of the complete system. In addition, the system is cleaned, the latest updates of SYCL are installed and you receive a protocol. You can choose a maintenance contract with/without calibration. Calibration is possible according to ISO 17025 or the standard Hettich calibration.

* As of release 3.2

Other product groups:

ASPIRATION SYSTEMS
AUTOCLAVE & STERILISERS
CENTRIFUGES
FLOW CABINETS
HYPOTHERMIA CABINETS
(CO₂) INCUBATORS & ACCESSORIES
CLIMATE CABINETS & CHAMBERS
REFRIGERATORS & (ULT) FREEZERS
MEDIA PREPARATORS
OIL, WATER & FERMENTATION BATHS
DAIRY ANALYSIS
OVENS
PLANT GROWTH CABINETS
LABORATORY GLASSWARE WASHERS
PHARMACEUTICAL STABILITY CABINETS
THERMOMIXERS & THERMOBLOCKS
VACUUM CONCENTRATORS
FREEZE DRYING



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