

Independent CO₂ Monitoring

by IKS International

The logo for XILTRIX features the word 'XILTRIX' in a bold, sans-serif font. The letters are primarily dark brown, with blue and light blue accents. The 'X' has a light blue diagonal stripe. The 'I' is solid blue. The 'L' has a light blue vertical stripe. The 'T' has a light blue vertical stripe. The 'R' has a light blue diagonal stripe. The 'I' is solid blue. The 'X' is solid blue.

REGISTRATION | MONITORING | ALARM SYSTEM

IKS International b.v. has recognized the importance of independent CO₂ monitoring some time ago already. For more than a decade IKS International b.v. has researched the difficulties and possibilities of a system that can independently monitor the CO₂ concentration, not by measuring inside the incubator, but by transporting a gas sample to a centralized station.

This research has resulted in a very sophisticated system that is capable of monitoring 16 separate CO₂ incubators simultaneously with 20 minutes intervals. Furthermore it is possible to connect an auto zero and auto calibration gas to this system. This way it is possible to detect the drift of the CO₂ sensor and recalculate the proper CO₂ value.

The system works through a vacuum pump together with a specialized valve bank. Every 20 minutes a sample is taken automatically out of every CO₂ incubator and sent through the infrared CO₂ sensor. The sensor is calibrated automatically through a week program which is adjustable by the users.

The sample is dried by a humidity trap which operates using normal tap water. The water is protected from algae growth by using oxidized red copper.



Fig. 1: The CO₂ substation.



Fig. 2: The humidity trap.

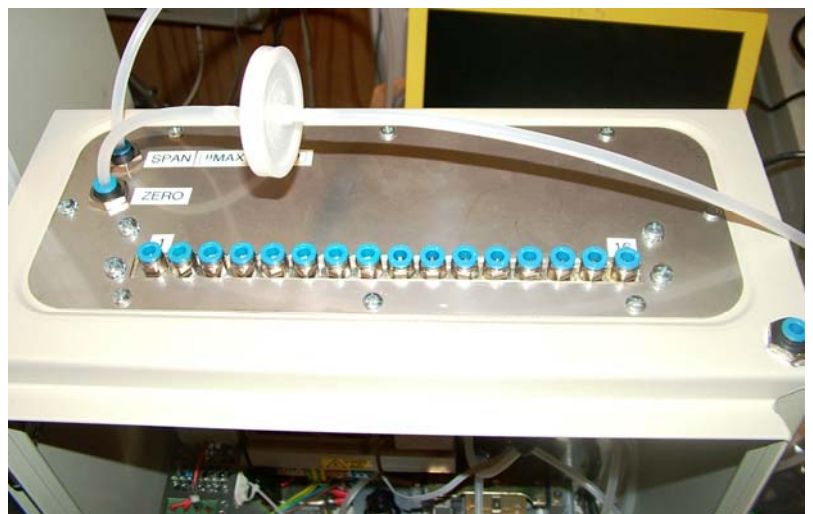


Fig. 3: The specialized valve bank.

After the sample has been properly measured the value is sent to the [XiltriX](#) main system and is treated like any other measuring value. In the software it is possible to set daily or weekly evaluation programs. These programs make it possible to work comfortably during the day and to tighten the monitoring during the night time.

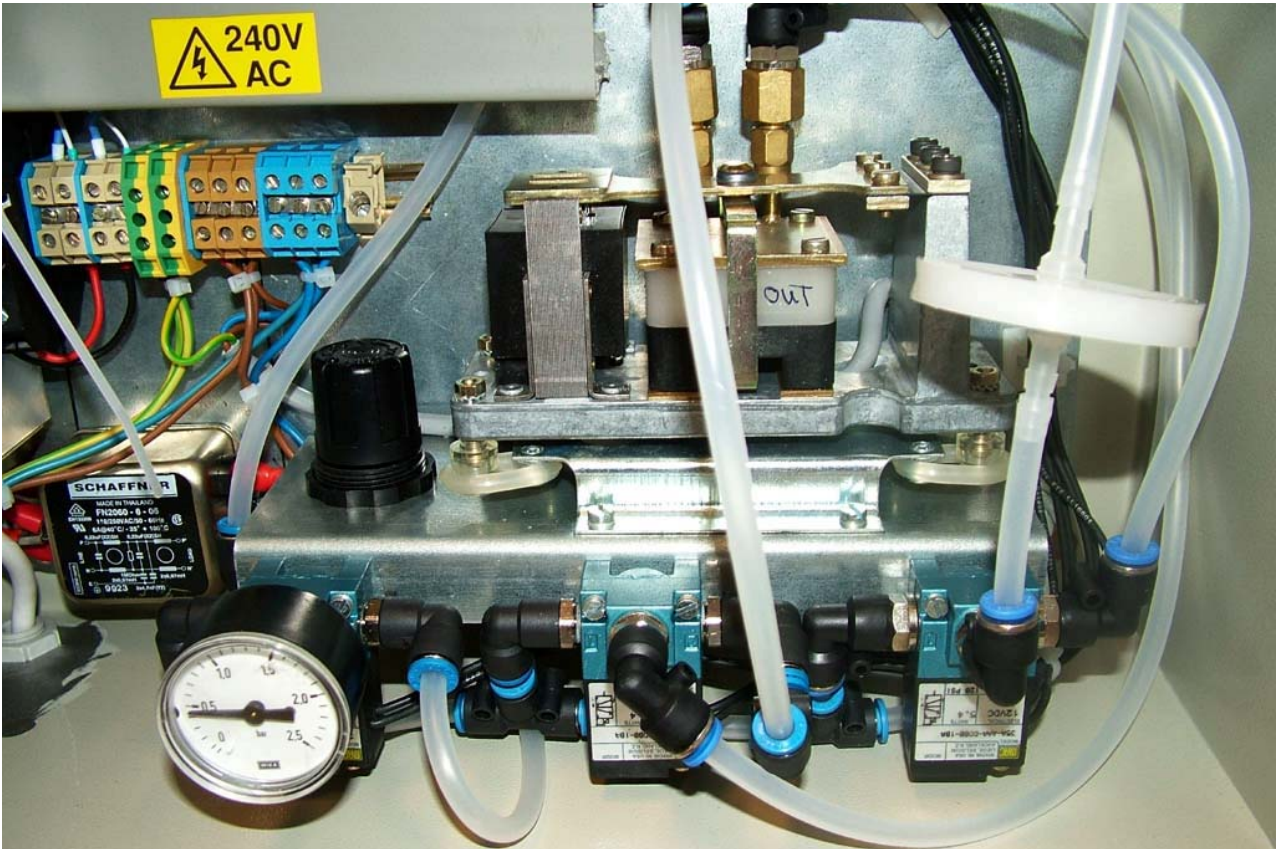


Fig. 4: The small valve bank for the calibration gas.

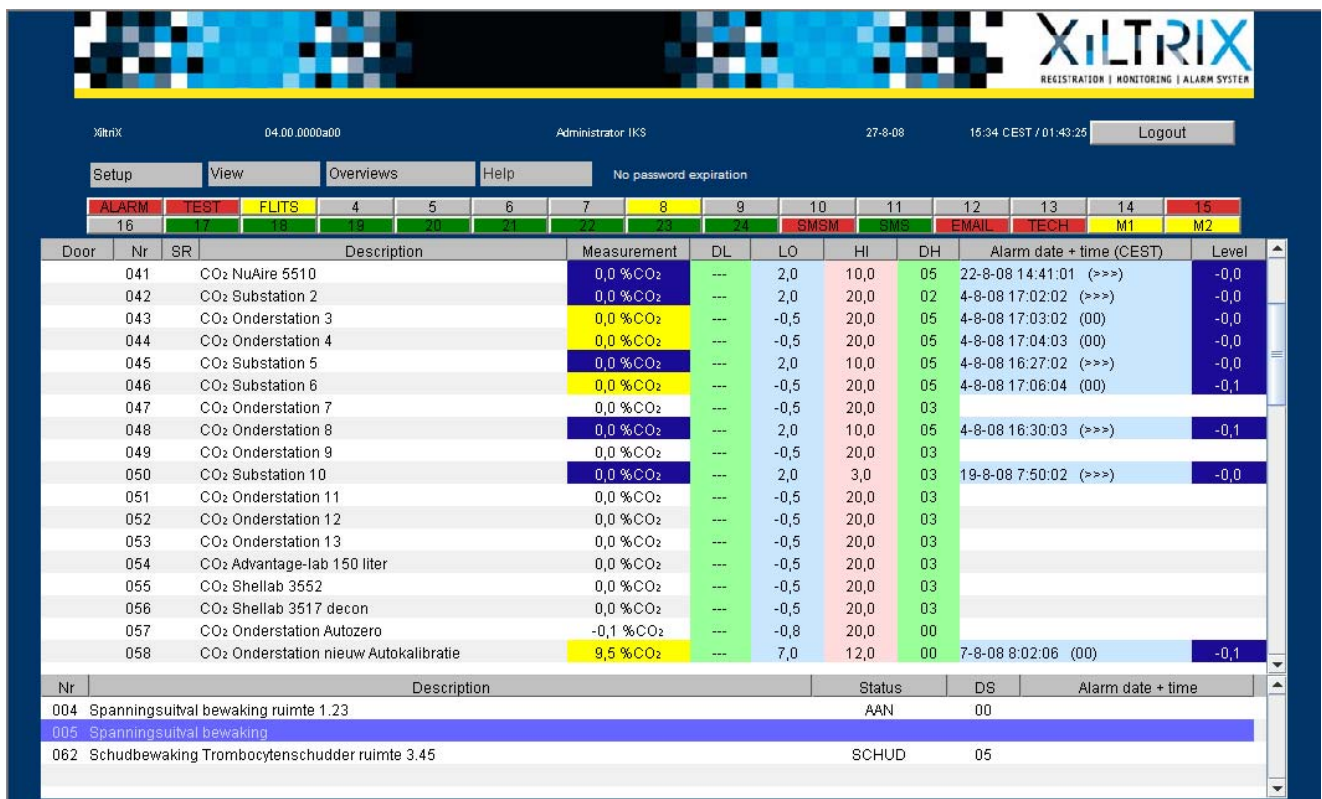


Fig. 5: a screenshot of the XiltriX monitoring system.

USP's

Why should a customer buy XiltriX CO₂ monitoring through IKS International b.v.?

- From 3 to 4 incubators and up XiltriX will save a lot of money.
- This is the only system which can automatically calibrate CO₂ measuring values
- XiltriX software is so sophisticated it can evaluate values differently during day and night times.
- The incubator is not affected because a sample is only measured every 20 minutes.
- The annual calibration costs are just a fraction of calibrating 16 separate sensors.
- The system can automatically detect sensor failure and alarm to it.

This is just a number of reasons why XiltriX is the leading brand for monitoring CO₂ inside CO₂ incubators. IKS International b.v. has supplied a large number of IVF and hematological research facilities in the Netherlands and abroad.

For further information please contact:

Arjan Oosterhuis
Export manager XiltriX

IKS International
Kievitsven 54, 5249 JK Rosmalen, The Netherlands
P.O. box 8, 5240 AA Rosmalen, The Netherlands
Phone: +31 (0) 73 5212229
Fax: +31 (0)73 5229350
Web site: www.iksbv.nl
Email: arjan@iksbv.nl