



Valve control box

Control and analyze up to six experiments simultaneously



To make full use of the possibilities of our detectors, Sensor Sense has developed a number of peripherals to make setting up experiments easy.

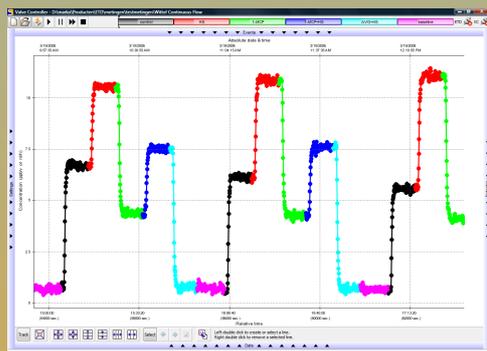
This valve control box is an indispensable tool for parallel measurements, fully automated and computer controlled, with all the gas handling components *completely* integrated in the device.

Options:

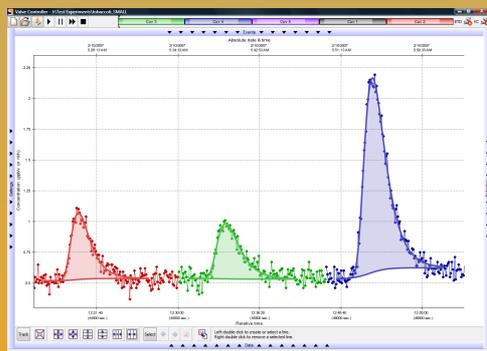
- **Continuous flow**
Independently controls the flow through up to six cuvettes and directs the flow of one channel to the detector. This keeps the flow conditions in the cuvettes constant throughout the experiments.
- **Stop and flow**
Accumulates the gas produced by a sample for a set amount of time before it is flowed through the detector. This makes it possible to measure extremely small gas productions. (e.g. the combination of the VC the ETD-300 can monitor production of ethylene as low as *40 picoliters per hour*.) Up to 6 cuvettes can be controlled simultaneously: while one is being measured, the others are accumulating, hence optimizing measurement efficiency.

The valve control box is supplied with user friendly software, special designed to *display* and *process* the data provided by the ETD-300 or other detectors in *real-time* .
No additional software needed: data ready to publish!

Datasheet Valve Controller



Continuous flow



Stop and flow

Sensor Sense B.V.

Gerstweg 2
Room AC 0.064
6534 AE Nijmegen
The Netherlands

+31 (0)24 2403434
sales@sensor-sense.nl
www.sensor-sense.nl

Technical Data

| | |
|--|---|
| Gases | Calibrated for air, N ₂ , other gases on request |
| Flow | 0.25-5 l/h |
| Accuracy | 0.2% FS |
| Number of flow channels | 6 |
| Modes | Continuous flow, stop and flow |
| Flow Controller Response Time (T_{1/e}) | 300 ms |
| Gas supply overpressure | 0.5-4 bar |
| Over pressure valve | Opens at 5 bar |
| Gas filter | Filters particles >7µm |
| | |
| Dimensions | 40x50x10cm (LxWxH) (19" rack configuration, 2U) |
| Operating temperature | 5-40 °C |
| Humidity | 0-95 % (non-condensing) |
| Power input | 90-264 VAC, 47-63 Hz |
| Power Consumption | <60 W |
| Gas input/output | Quick fitting connectors for 1/8" OD tubing |

Interface

| | |
|--------------------|--|
| Output | USB |
| Control | - Sensor Sense Valvecontroller software Compatible with MS Windows XP or higher Min. 1 GHz, 512 MB RAM - .DLL for integration in other software - The valves can also be manually controlled |
| Data output | .CSV, compatible with MS Excel, OOo Calc, Microcal Origin etc. |
| Display | LED indicators |

This valve controller box is designed for use in combination with the Sensor Sense Ethylene Detector (ETD-300). The device can be adapted to a stand-alone device on request

Several types of cuvettes for experiments, as well as scrubbers and catalyzers to provide hydrocarbon-free air are also available at Sensor Sense.