

# Air Monitoring

*Prevent harmful gasses in the greenhouse air*



In the current greenhouse horticulture, methods are often used to add CO<sub>2</sub> to the crop. This is usually done with flue gases or from equipment with a combustion engine in or around the greenhouse. The composition of this additive usually contains harmful gases such as ethylene and NO<sub>x</sub>. If the concentration in the greenhouse air becomes too high, this will be at the expense of the quality and yield of the crop.

In collaboration with EMS and CropEye, SERCOM has developed the Air Monitoring system. This signals in good time whether the concentration of ethylene or NO<sub>x</sub> is rising too high in the greenhouse and necessary measures can be taken, if required. You can think of stopping CO<sub>2</sub> dosing and adjusting the ventilation intensity. This prevents loss of production and quality.

Air Monitoring consists of the MAC View®-Greenhouse Gas Analyser from EMS and a module on the climate computer from SERCOM. The MAC View®-Greenhouse

## In brief:

- New dimension in control
- Monitoring present ethylene and NO<sub>x</sub>
- Clean and healthy greenhouse air
- No crop damage
- Better quality of your crop
- Higher production
- Possible GMO subsidy



Gas Analyser is an extremely sensitive measuring instrument to monitor five gases, namely NO, NO<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, CO and CO<sub>2</sub>. By linking this device to the Sercom climate computer, it is possible to automatically adjust the vent position or stop CO<sub>2</sub> dosing if the limit values are imminently exceeded.

The MAC View®-Greenhouse Gas Analyser falls under the GMO scheme. Your financial advisor can tell you more about this.

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