

## Safe CO<sub>2</sub> dosing

Sercom's CO/NO safety devices are designed for the express purpose of continuous central CO<sub>2</sub> installation or CO<sub>2</sub> boiler monitoring by measuring very low carbon monoxide (CO) and / or nitrogen monoxide (NO) concentrations. The practical design is the result of extensive hands-on experience in the greenhouses of horticultural enterprises.

The device comprises the following principal components: control unit equipped with single or double detector mechanisms. The control unit contains a three button display for ease of operation as well as triple signal light set indicating "in operation", "alarm" and "alarm limit exceeded".

The detector mechanism consists of a cooling coil, moisture separator, adjustment valve with flow-indicator and a CO or NO detector. All components are assembled on a single mounting plate.

The control unit is situated in an easily accessible location to facilitate optimum usage. Detection mechanisms are positioned in close proximity to the central CO<sub>2</sub> installation. No suction pump is necessary due to over pressure prevalent in a central CO<sub>2</sub> installation. Separate CO and NO detectors for greenhouse usage may be additionally supplied.

### Sercom's CO/NO safety device characteristics:

- ▶ Clearly legible graphical display.
- ▶ Date and time on display.
- ▶ Alarm registration memory.
- ▶ No memory loss in case of power failure.
- ▶ Provided with double detector unit connection provision.
- ▶ Operation indication buttons located on display.
- ▶ Measure outlets, for external registration.
- ▶ Three-light signal set: green=in operation; red=alarm; yellow=alarm limit exceeded.
- ▶ Detector mechanism with cooling coil, automatic moisture separator and adjustment valve with flow-indicator.

A Sercom CO/NO safety device is provided with operation manual and installation instructions.

### Technical Information:

Measurements (minus swivel): height x width x depth		
Control unit:	210 x 135 x 35 mm	weight: 0.8 kg.
Detector mechanism:	520 x 200 x 105 mm	weight: 1.5 kg.
Packing (device inclusive):	670 x 420 x 140 mm	weight: 3.5 kg.
Voltage:	24 Volt AC = 10%	50-60 Hz
Power consumption:	4.6 Watt	1.8 Watt (nominal)
Detector's measuring range:	CO: 0 - 300 ppm	NO: 0 - 3000 ppm
Alarm limit setting:	CO: 3 - 100 ppm	NO: 30 - 1000 ppm
Detector accuracy:	±5% of measuring value at 20°C.	
Measuring outlets:	0 - 20 mA or 4 - 20 mA	
Alarm contact:	potential free make/break contact (max.30VAC/DC)	
Outlet release relay CO <sub>2</sub> unit	24 Volt DC.	

**For additional information, please view our internet site at [www.sercom.nl/co](http://www.sercom.nl/co)**

**Your Sercom CO/NO safety device dealer:**