

CO₂Sensor Basic / ES 999 12V

Co₂ sensor

**Sensor for ventilation plant for
increased comfort**

Properties:

ES 999 is to be used as sensor for controlling ventilation according to CO₂ level in single rooms or in more complicated ventilation systems. ES 999 is provided with a 0-10V proportional output based on the current CO₂ level, which is used as input for a regulator or ventilation plant.

Both design and ease-of-use have been prioritised:

- Easy mounting and installation.

- Maintenance free.

- Discreet sensor ideal for mounting in households and office environments.

- Input signal for controlling ventilation plant based on CO₂ level.

- To be used only as CO₂ measurer.

The CO₂ Sensor uses the widely used ABC algorithm, which ensures long life without calibration. Only the room cannot be used constantly, but must regularly get sufficient airflow to lower the CO₂ to fresh air level.

Functionality:

ES 999 measures the CO₂ level in the room and translates the measurement to a proportional 0-10V output. ES 999 can also be used as ON/OFF controller in combination with external 0-10V set-point relay. Power supply ES 963 is designed for use with the CO₂ sensor and has a built-in set-point relay.

CO₂ proportional output:

The voltage varies proportionally with the CO₂ level between 0 and 10V corresponding to 0 and 2000 ppm.

Mounting / installation:

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Supply:

Supply is connected to the clamps marked + og 0.

CO₂ level:

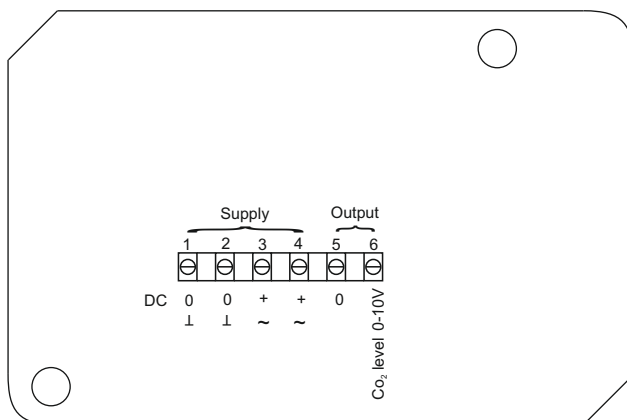
The output signal is polarized and should therefore be connected correctly as shown on the drawing and on the marking on the clamps terminal.

Connection diagram

Front



Rear



Technical data:

Supply:	DC: 12V \pm 10% 0,6VA
Operating temperature:	10 - 50°C
Measuring range CO ₂ sensor:	0 - 2000ppm
Accuracy CO ₂ sensor:	\pm 50ppm ved 500ppm
CO ₂ proportional output:	0 - 10V 15mA

Maintenance free when used in households and office environments.

Enclosure:	IP 21
Dimensions (HxBxD):	85 x 85 x 35 mm

WEEE

Electrical and electronic equipment contains material which may be hazardous to human health and environment if it is not handled correctly at disposal. Electrical and electronic equipment is marked with a crossed-out wheelee bin logo. This logo symbolises that electrical and electronic equipment should not be disposed of together with normal household waste but must be collected separately. Contact your local suthorities for further information on disposal of equipment under the WEEE directive



The product complies with the following standard

EN 60730-1



Date: 07/09-2017
Drawing: 950-206642_CO2SensorBasic_12V_ES999_UK
Drawn by: THJ/df
Rev.: 1.1
Manufactured by: LS Control A/S
Industrivej 12, DK-4160 Herlufmagle

LSCONTROL