

# aSENSE GH Disp



## CO<sub>2</sub>- and Temperature sensor for Green House Installation.

aSENSE GH Disp measures both carbon dioxide concentration and temperature in the ambient air and sends these values to the control system.

aSENSE GH Disp is a low-cost transmitter for installation in the climate zone. The special coated PCB and extra dust/water protection filter, makes aSENSE GH Disp suited for all kinds of greenhouses, mushroom farms, incubators and similar environments.

### Standard specification

Measured gas	Carbon dioxide (CO <sub>2</sub> )
Operating principle	Non-dispersive infrared (NDIR)
Measurement range CO <sub>2</sub>	0 – 2000 ppm
OUT1 linear output	0/2 – 10 V DC 0 – 2000 ppm CO <sub>2</sub> 0/4 – 20 mA,
OUT2 linear output	0 – 2000 ppm CO <sub>2</sub> 0/2 – 10 V DC, 0 – 50 °C 0/4 – 20 mA, 0 – 50 °C
OUT3 Relay	On/Off 1000 ppm/900 ppm
Accuracy CO <sub>2</sub>	±30 ppm ±3% of reading
Dimensions	152 x 84 x 42 mm
Life expectancy	>15 years
Operating temp range	0 – 50 °C
Operating humidity range	5 – 85% RH (non condensing)
Power supply	24 V AC/DC ±20%, 50/60 Hz
Power consumption	<1 W average
Communication	UART (Modbus)

### Key benefits

- State-of-the-art non-dispersive infrared (NDIR) technology to measure carbon dioxide gas
- Membrane covered sample chamber resulting in a stable, reliable and highly accurate carbon dioxide sensor
- Reliable and accurate built-in NTC thermistor for measuring temperature
- Fully coated PCB together with a special filter equipped housing makes aSENSE GH perfectly resistant towards dust and humidity
- Optional RS485 digital interface to PC and advanced control network systems



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**Senseair**

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an Asahi Kasei company