



CO₂- and Temperature sensor for Green House Installation.

GT3101 measures both carbon dioxide concentration and temperature in the ambient air and sends these values to the control system.

GT3101 is a transmitter for installation in the climate zone. The special coated PCB and extra dust/water protection filter, makes GT3101 suited for all kinds of greenhouses, mushroom farms, incubators and similar environments.

Standard specification

Measured gas	Carbon dioxide (CO ₂)
Operating principle	Non-dispersive infrared (NDIR)
Measurement range CO ₂	0 – 5000 ppm
OUT1 linear output	0/2 – 10 V DC 0 – 5000 ppm CO ₂ 0/4 – 20 mA,
OUT2 linear output	0 – 5000 ppm CO ₂ 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 ₂	±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 GT3101 perfectly resistant towards dust and humidity
- Optional RS485 digital interface to PC and advanced control network systems



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