



GS 10.00 pro

- Detection of the air quality (CO₂ concentration, rel. humidity and temperature)
- CO₂ sensor (Measuring range 500 - 2000 ppm CO₂ concentration)
- CO₂ value is atmospheric pressure compensated
- Humidity sensor (Measuring range 15 - 85% rel. humidity)
- Temperature sensor (Measuring range 0 - 50 °C)
- 3 control outputs (0-10 V) for measured values of CO₂ concentration, rel. humidity and temperature
- Control of the CO₂ concentration via 2 sensor-controlled switching channels (potential-free contacts)
- Control of the rel. humidity via 2 sensor-controlled switching channels (potential-free contacts)
- Status and warning indicator when CO₂ concentration threshold is exceeded (LED)
- Status indication when relative humidity threshold is exceeded (LED)
- Automatic ventilation start when exceeding the maximum concentration of CO₂ (at values above 1400 ppm)
- Separate control for humidification and dehumidification

Guideline for the carbon dioxide concentration in rooms

CO ₂ -concentration	Assessment of air quality
< 800 ppm	Good
800–1400 ppm	Moderately
> 1400 ppm	Low / Unhealthy

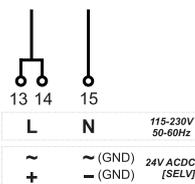
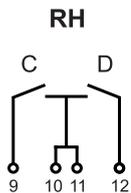
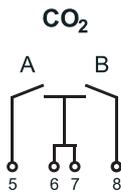
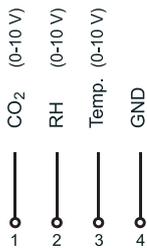
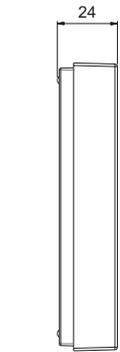
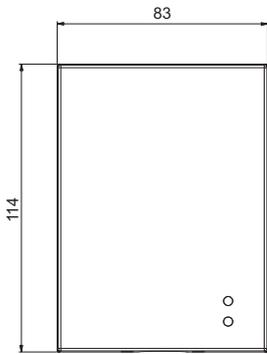
Highlights

- 3 sensors for room climate control
- Simple upgrade of uncontrolled ventilation systems
- Easy handling and mounting
- Modern and planar design

Air quality sensors GS 10.00 pro

for wall mounting

Technical data



Power supply	24 V AC/DC or 115–230 V, 50–60 Hz
Channels (potential-free)	4 switching channels, normally open, contact gap < 3 mm (μ)
Contact material	AgSnO ₂
Switching capacity per channel (resistive and inductive load)	8 A / 250 V~ at cosφ=1 2 A with inductive load cosφ=0,5
Control outputs	3 control outputs (0–10 V)
Sensors	CO ₂ , relative humidity, temperature
Measuring range CO₂ concentration	500–2000 ppm
Measuring range relative humidity	15–85 % RH
Measuring range temperature	0–50°C
Switching threshold channel A (CO ₂)	According to threshold value 700–1300 ppm (± 50 ppm)
Switching threshold channel B (CO ₂)	Fix switching threshold (not adjustable) 1400 ppm (± 50 ppm)
Switching threshold channel C (RH)	15–45% (± 3% RH) Function humidify
Switching threshold channel D (RH)	50–80% (± 3% RH) Function dehumidify
Hysteresis (CO ₂)	± 50 ppm
Visual information	2 LEDs
Permitted ambient temperature	0°...+50°C
Housing	self-extinguishing thermoplastic
Housing color	studio white
Mounting	Wall
Type of connection	Screw terminals
Type of protection	IP 20 to DIN EN 60529
Class of protection	II when installed according to regulations
Mode of operation (DIN EN 60730-1)	1 B
Degree of contamination (DIN EN 60730-1)	2
Rated surge voltage (DIN EN 60730-1)	4 kV

Order number	Power Supply	Channels	Control outputs	Sensors
GS 10.00 pro	24 V AC/DC	4	3	CO ₂ , temperature, humidity
GS 10.00 pro	115–230 V, 50–60 Hz	4	3	CO ₂ , temperature, humidity

▾ Housing colour