

#### **Gas Monitor**

Belimo gas monitors are factory calibrated and can monitor up to two gases simultaneously. All monitors feature audible and visual alarms, and CAN bus communication, allowing for standalone operation and networking of up to 32 devices. Select models feature relays and analog outputs to control ventilation directly, as well as BACnet MS/TP allowing for integration into a BMS. All gas monitors are wired via a daisy chain and are backed by a five-year warranty.





5-year warranty





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Туре	Measured values	Number of relays	Output signal active gas	Communication
22G15-5A3	CO <sub>2</sub>	1	2x AO	CAN bus, BACnet MS/TP
22G15-5B3	CO <sub>2</sub>	2	-	CAN bus, BACnet MS/TP

Technical data		
Electrical Data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption AC	5 VA
	Power consumption DC	2 W
	Cable entry	2 top, 2 bottom, 1 rear – 1/2" EMT
	Cable specification	Power cable: 1820 AWG Communication cable: 24 AWG twisted shielded pair, low capacitance
	Fuse	Thermal PTC, auto-reset
Data bus communication	Communication	CAN bus BACnet MS/TP
Functional Data	Sensor Technology	ABC Logic Auto Calibration Infrared
	Application	air
	Output signal active note	Analog outputs (2), 210 V or 420 mA, user selectable with jumper
	Output signal relay note	Relays (1 or 2) SPDT, 5A @ AC 125 V, non-inductive

Mounting

Max. altitude

Max. altitude note

Install between 3 ft [1 m] from the floor to half

Calibration verification is recommended above

of the ceiling height

610 m [2000 ft]

6562 ft [2000 m] above sea level



	Technical data sheet	22G15-53
Functional Data	Coverage area	Radius: 15 m [50 ft] Area: 700 m² [7500 ft²] There can be no obstructions such as walls, stairs, elevators, shelving with solid fill, tool chests, etc.
	Display	LCD With backlight Gas type, gas concentration, alarm level status
	Response time	2 min by 90%
	Alarm	Audible alarm Built-in white strobe for level 3
	Warm-up time	10 minutes
Measuring Data	Measured values	CO <sub>2</sub>
	Measuring range gas	02000 ppm
	Calibration	Sensor modules are recommended to be calibrated annually.
Materials	Housing	UL94 5VA
Safety Data	UL Approval	cCSAus listed to C22.2 No. 61010-1-12, UL Std. No. 61010-1 (3rd Edition), harmonized under IEC/EN 61010-1 BTL listed No. BTL-30001
	Pollution degree	2
	Ambient humidity	1590% RH continuous, 099% RH intermittent, non-condensing

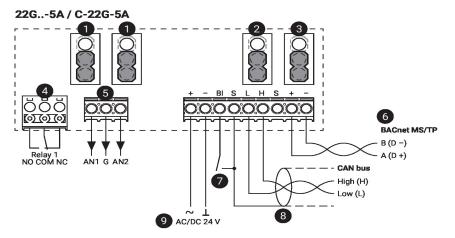
-20...40°C [-4...104°F]

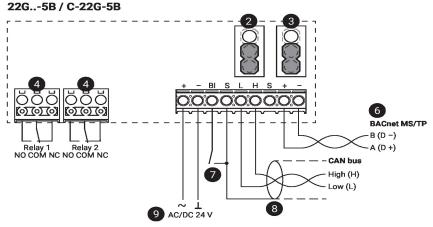
# Accessories

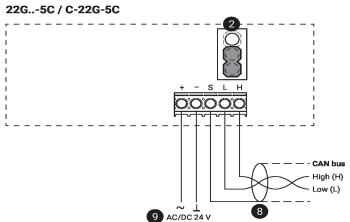
Spare parts	Description	Туре
	Sensor module CO₂ (Carbon Dioxide), 02000 ppm, ABC Logic Auto Calibration	R-G15-003
Communication module	Description	Туре
	Communication module, CAN bus, BACnet MS/TP, 1 SPDT Relay, 2 Analog Outputs	C-22G-5A
	Communication module, CAN bus, BACnet MS/TP, 2 SPDT Relays	C-22G-5B
	Communication module, CAN bus	C-22G-5C
Electrical accessories	Description	Туре
	Audible alarm	A-22G-A16
Mechanical accessories	Description	Туре
	Splash proof enclosure, Wall mount	A-22G-A12
	Duct mount enclosure, Duct mount	A-22G-A13

Ambient temperature

### **Wiring Diagram**





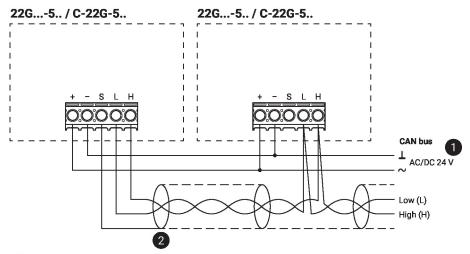


- Analog outputs
  Down position: 2...10 V (factory setting)
  Up position: 4...20 mA
- 2 End of line (EOL) jumper: CAN bus
  Down position: Termination OFF (factory setting)
  Up position: Termination ON (first and last unit only should have this jumper in the up position)
- BEND of line (EOL) jumper: BACnet MS/TP
  Down position: Termination OFF (factory setting)
  Termination ON (first and last unit only should have this jumper in the up position)
- 4 Relay output
- 5 Analog output
- 6 Shield connected at the first unit only, at others only looped through
- Binary input to limit switch
- 8 Shield connected at the first unit only, at others only looped through
- 9 No connection to the ground



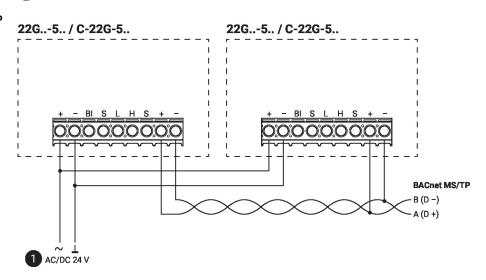
### Wiring CAN bus





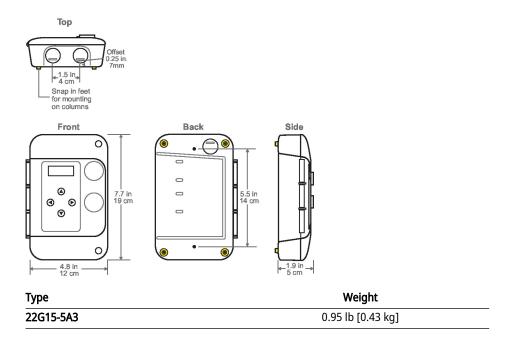
- 1 No connection to the ground
- Shield connected at the first unit only, at others only looped through

### Wiring RS485 BACnet MS/TP



1 No connection to the ground

### **Dimensions**





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Туре	Weight
22G15-5B3	0.95 lb [0.43 kg]

## **Further documentation**

- Installation instructions
- Operating instructions