

Gas Monitor

Belimo's Indoor Air Quality gas monitoring devices offer a peer-to-peer communication protocol so that users can configure and install a complete ventilation control system with just one monitor or dozens operating in multiple zones. A field-replaceable sensing element, stand-alone installation, and a lockable LCD make Belimo's gas monitoring devices ideal for any application requiring moisture control and ventilation. The extended CO2 ranges make them suitable for greenhouses, grow farms, and agriculture.



2-year warranty


Type Overview

Type	Measured values	Measuring range gas	Number of relays	Output signal active gas	Communication
EXT-OP-6015-2000-A	CO ₂	0...2000 ppm	1	2x 2...10 V, 2x 4...20 mA	CAN bus, BACnet MS/TP
EXT-OP-6015-2000-B	CO ₂	0...2000 ppm	2	-	CAN bus, BACnet MS/TP
EXT-OP-6015-5000-A	CO ₂	0...5000 ppm	1	2x 2...10 V, 2x 4...20 mA	CAN bus, BACnet MS/TP
EXT-OP-6015-5000-B	CO ₂	0...5000 ppm	2	-	CAN bus, BACnet MS/TP
EXT-OP-6015-10000B	CO ₂	0...10000 ppm	2	-	CAN bus, BACnet MS/TP
EXT-OP-6015-10000C	CO ₂	0...10000 ppm	0	-	CAN bus

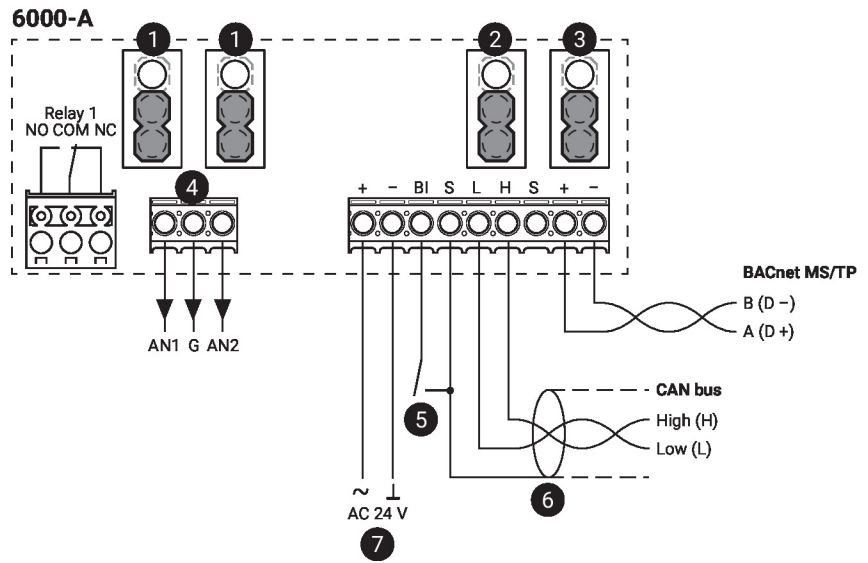
Technical data

Electrical Data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption AC	5 VA
	Power consumption DC	5 W
	Cable entry	2 top, 2 bottom, 1 rear – 1/2" EMT
	Cable specification	1 pair twisted shielded 24...18AWG
	Fuse	Thermal PTC, auto-reset
Data bus communication	Communication	CAN bus BACnet MS/TP
Functional Data	Sensor Technology	ABC Logic Auto Calibration
	Application	air
	Output signal active note	2...10 V or 4...20 mA output, selectable with jumper
	Output signal relay note	Relays (1 or 2) SPDT, 5A @ AC 125 V, non-inductive
	Mounting	Min. 1 m [3 ft] off the ground and up to half the height of the room
	Max. altitude	6562 ft [2000 m] above sea level
	Coverage area	Radius: 15 m [50 ft] Area: 700 m ² [7500 ft ²] There can be no obstructions such as walls, stairs, elevators, shelving with solid fill, tool chests, etc.

Functional Data	Display	LCD, With backlight Gas concentration, system status
	Response time	2 min by 90%
	Alarm	Audible alarm, 85 db @ 1 m [3.3 ft]
Measuring Data	Measured values	CO ₂
	Measuring range gas	0...2000 ppm 0...5000 ppm 0...10000 ppm
	Accuracy CO ₂	±(70 ppm + 3% of measured value)
	Materials	Housing
Safety Data	Protection class IEC/EN	II, reinforced insulation
	Protection class UL	II, reinforced insulation
	UL Approval	CAN/CSA 205-2017, CAN/CSA 22.2 No. 152, BTL
	Pollution degree	2
	Ambient humidity	Max. 80% RH, non-condensing
	Ambient temperature	-20...40°C [-4...104°F]

Accessories

Mechanical accessories	Description	Type
	Audible alarm	EXT-OP-5000-AL
	Splash guard, Wall mount	EXT-OP-6000-BT
	Splash guard, Duct mount	EXT-OP-6000-GN
	Communication module, CAN bus, BACnet MS/TP, Relays (1 or 2) SPDT, 5A @ AC 125 V, non-inductive	EXT-OP-6000-A
	Communication module, CAN bus, BACnet MS/TP, Relays (1 or 2) SPDT, 5A @ AC 125 V, non-inductive	EXT-OP-6000-B
	Communication module, CAN bus, Relays (1 or 2) SPDT, 5A @ AC 125 V, non-inductive	EXT-OP-6000-C
	Communication module, Ventilated cover, CAN bus, BACnet MS/TP, Relays (1 or 2) SPDT, 5A @ AC 125 V, non-inductive	EXT-OP-6000-BVC
	Calibration gas bottle N ₂ (Nitrogen), 0...100% vol., Zero gas, 103 L	EXT-OP-GAS-N2
	Calibration gas bottle CO ₂ (Carbon Dioxide), 0...1000 ppm, 103 L	EXT-OP-GAS-CO2
	Replacement sensor module CO ₂ (Carbon Dioxide), 0...2000 ppm, ABC Logic Auto Calibration	EXT-OP-5515-2000
	Replacement sensor module CO ₂ (Carbon Dioxide), 0...5000 ppm, Dual channel auto calibration	EXT-OP-5515-5000



1 Analogue output settings

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)

3 End of line (EOL) jumper: BACnet MS/TP

Down position: Termination OFF (factory setting)
 Up position: Termination ON (first and last unit only should have this jumper in the up position)

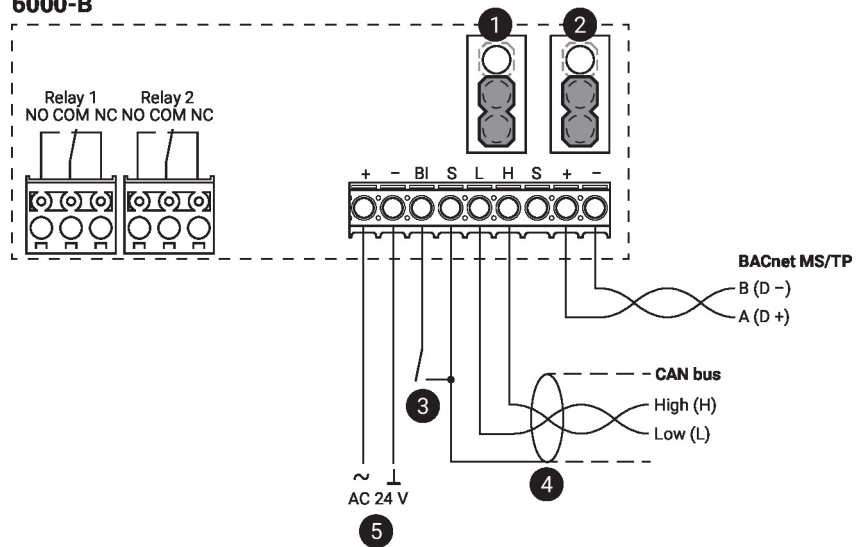
4 Analogue output

5 Binary input to limit switch

6 Shield connected at the first unit only, at others only looped through

7 No connection to the ground

6000-B



1 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)

2 End of line (EOL) jumper: BACnet MS/TP

Down position: Termination OFF (factory setting)

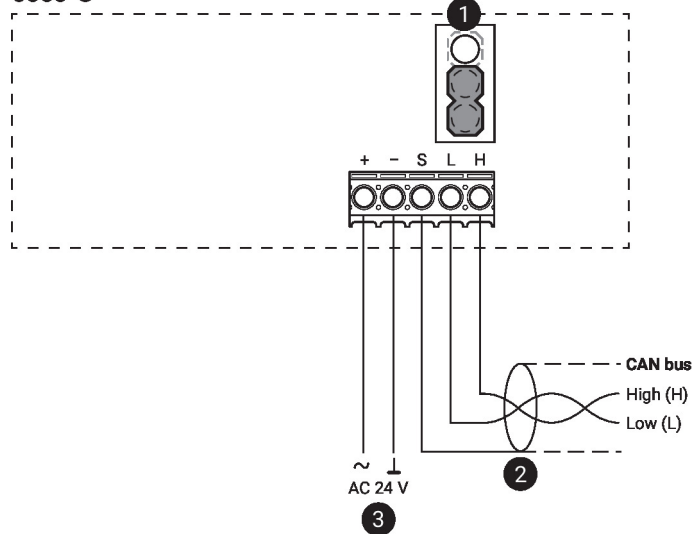
Up position: Termination ON (first and last unit only should have this jumper in the up position)

3 Binary input to limit switch

4 Shield connected at the first unit only, at others only looped through

5 No connection to the ground

6000-C



1 End of line (EOL) jumper: CAN bus

Down position: Termination OFF (factory setting)

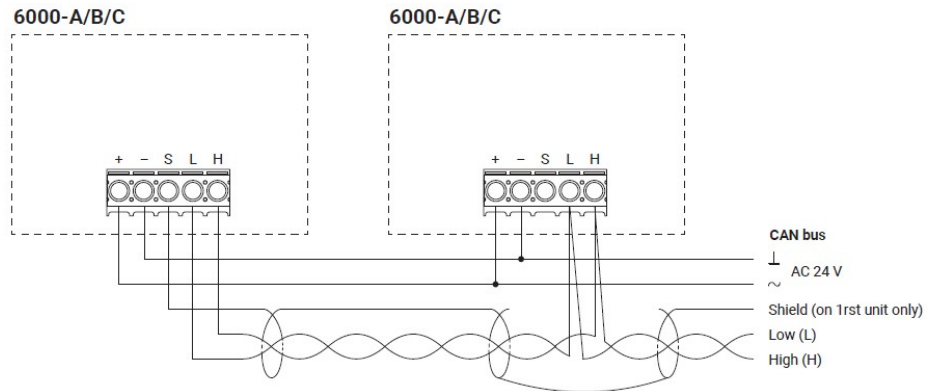
Up position: Termination ON (first and last unit only should have this jumper in the up position)

2 Shield connected at the first unit only, at others only looped through

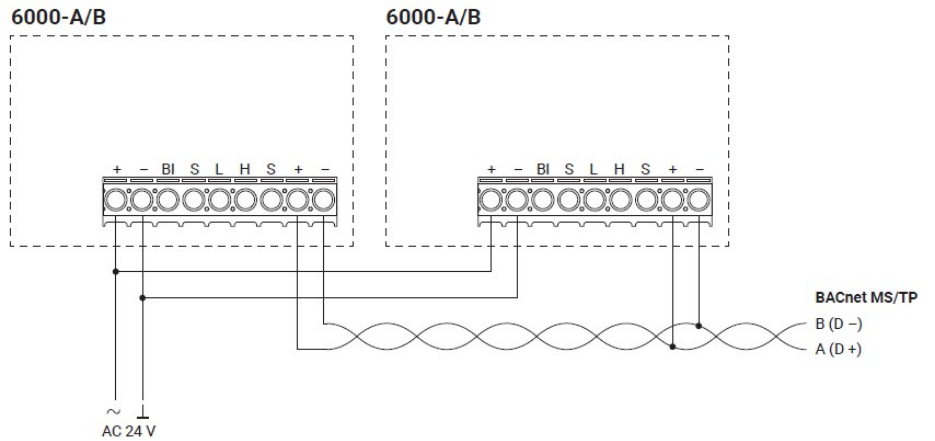
3 No connection to the ground

Wiring CAN bus

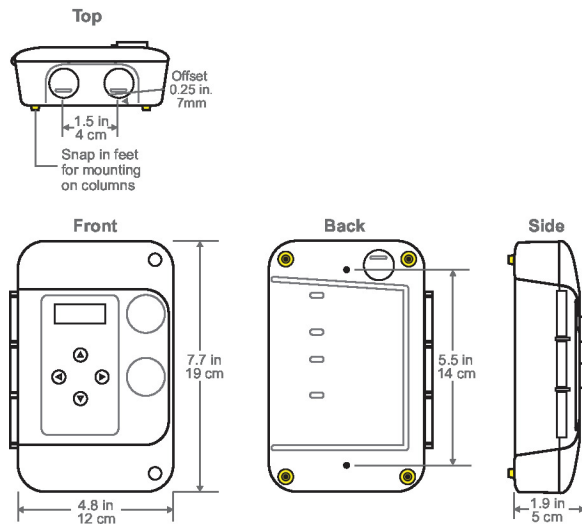
CAN bus



Wiring RS485 BACnet MS/TP



Dimensions



Type	Weight
EXT-OP-6015-2000-A	0.95 lb [0.43 kg]
EXT-OP-6015-2000-B	0.95 lb [0.43 kg]
EXT-OP-6015-5000-A	0.95 lb [0.43 kg]
EXT-OP-6015-5000-B	0.95 lb [0.43 kg]
EXT-OP-6015-10000B	0.95 lb [0.43 kg]
EXT-OP-6015-10000C	0.95 lb [0.43 kg]