

**Gas detector**

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 <sub>2</sub>	0...2000 ppm	1	2x 2...10 V, 2x 4...20 mA	CAN bus, BACnet MS/TP
EXT-OP-6015-2000-B	CO <sub>2</sub>	0...2000 ppm	2	-	CAN bus, BACnet MS/TP
EXT-OP-6015-5000-A	CO <sub>2</sub>	0...5000 ppm	1	2x 2...10 V, 2x 4...20 mA	CAN bus, BACnet MS/TP
EXT-OP-6015-5000-B	CO <sub>2</sub>	0...5000 ppm	2	-	CAN bus, BACnet MS/TP
EXT-OP-6015-10000B	CO <sub>2</sub>	0...10000 ppm	2	-	CAN bus, BACnet MS/TP
EXT-OP-6015-10000C	CO <sub>2</sub>	0...10000 ppm	0	-	CAN bus

**Technical data**

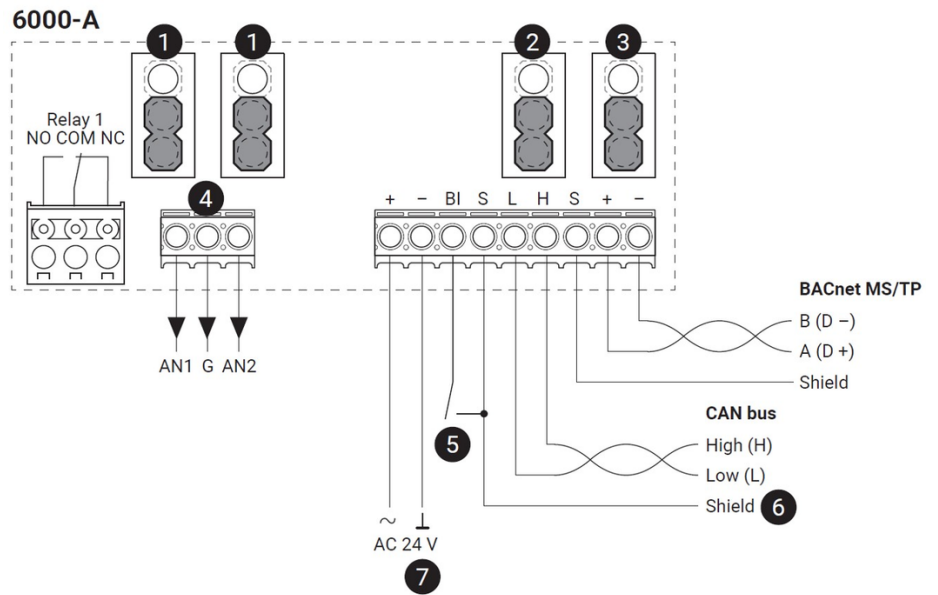
<b>Electrical Data</b>	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 17...28 V / DC 17...28 V
	Power consumption AC	5 VA
	Power consumption DC	5 W
	Cable entry	2 top, 2 bottom, 1 rear – 1/2" EMT
	Cable specification	1 pair twisted shielded 24...18AWG
	Fuse	Thermal PTC, auto-reset
<b>Functional Data</b>	Sensor Technology	ABC Logic Auto Calibration
	Application	air
	Communication	CAN bus BACnet MS/TP
	Output signal active note	2...10 V or 4...20 mA output, selectable with jumper
	Output signal relay note	1 x SPDT, max. 1.5 A (0.4 A inductive), AC 250 V
	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 <sup>2</sup> [7500 ft <sup>2</sup> ] There can be no obstructions such as walls, stairs, elevators, shelving with solid fill, tool chests, etc.

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

**Accessories**

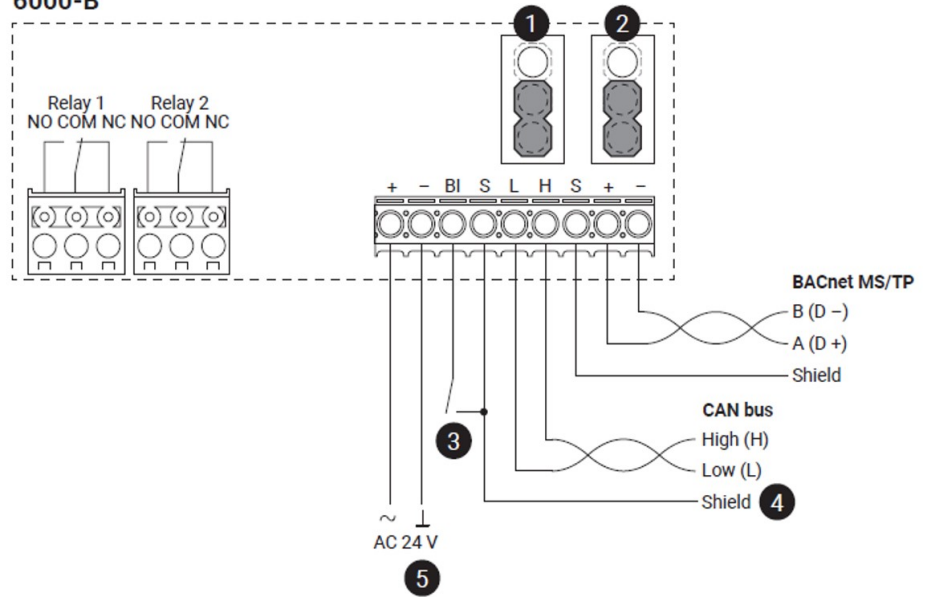
<b>Spare parts</b>	<b>Description</b>	<b>Type</b>
	Replacement sensor module CO <sub>2</sub> (Carbon Dioxide), 0...2000 ppm, ABC Logic Auto Calibration	EXT-OP-5515-2000
	Replacement sensor module CO <sub>2</sub> (Carbon Dioxide), 0...5000 ppm, Dual channel auto calibration	EXT-OP-5515-5000
<b>Communication module</b>	<b>Description</b>	<b>Type</b>
	Communication module, CAN bus, BACnet MS/TP, 1 x SPDT, max. 1.5 A (0.4 A inductive), AC 250 V	EXT-OP-6000-A
	Communication module, CAN bus, BACnet MS/TP, 2 x SPDT, max. 1.5 A (0.4 A inductive), AC 250 V	EXT-OP-6000-B
	Communication module, CAN bus	EXT-OP-6000-C
	Communication module, Ventilated cover, CAN bus, BACnet MS/TP, 2 x SPDT, max. 1.5 A (0.4 A inductive), AC 250 V	EXT-OP-6000-BVC
<b>Calibration gas mixture</b>	<b>Description</b>	<b>Type</b>
	Calibration gas bottle, 103 L	EXT-OP-Gas-N2
	Calibration gas bottle CO <sub>2</sub> (Carbon Dioxide), 0...1000 ppm, 103 L	EXT-OP-Gas-CO2
<b>Mechanical accessories</b>	<b>Description</b>	<b>Type</b>
	Alarm horn	EXT-OP-5000-AL
	Splash guard, Wall mount	EXT-OP-6000-BT
	Splash guard, Duct mount	EXT-OP-6000-GN





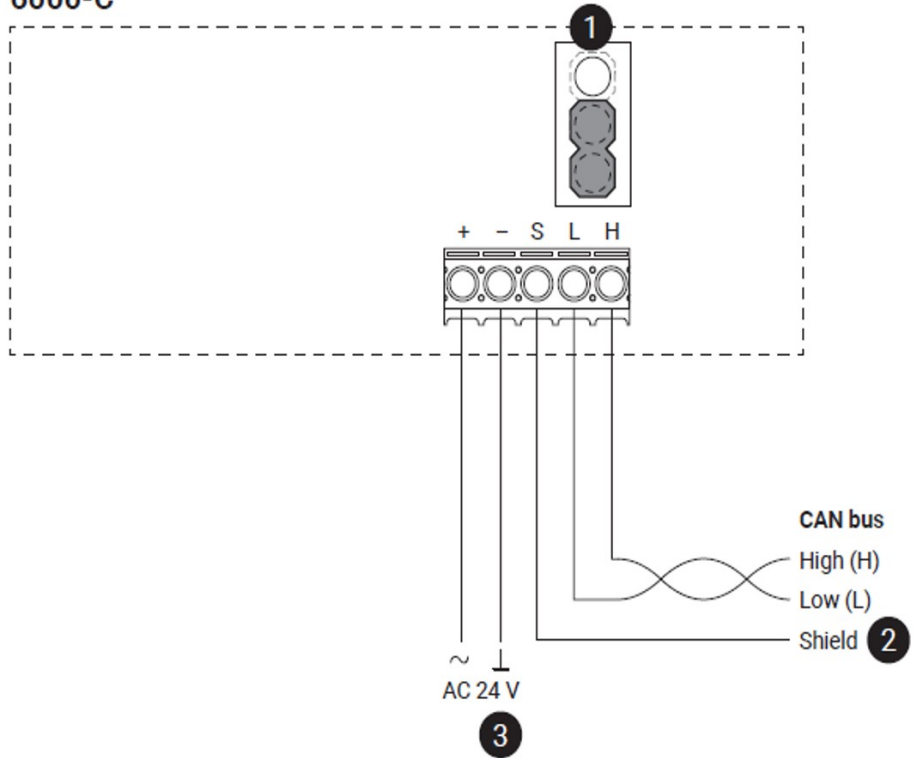
- 1** Down position: 2...10 V (factory setting)  
Up position: 4...20 mA
- 2** End of line (EOL) jumper: CAN bus  
Down position: Termination OFF (factory setting)  
Up position: Termination ON (first and last unit only should have this jumper in the up position)
- 3** End of line (EOL) jumper: BACnet 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 1<sup>st</sup> 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 1<sup>st</sup> unit only, at others only looped through
- 5** No connection to the ground

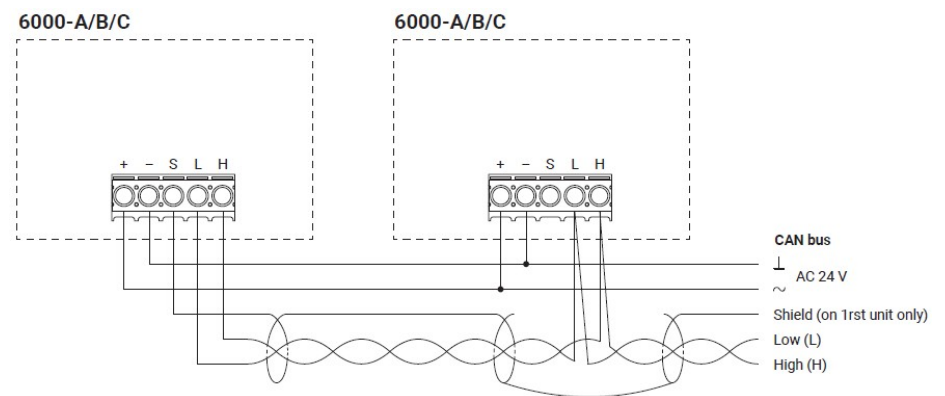
**6000-C**



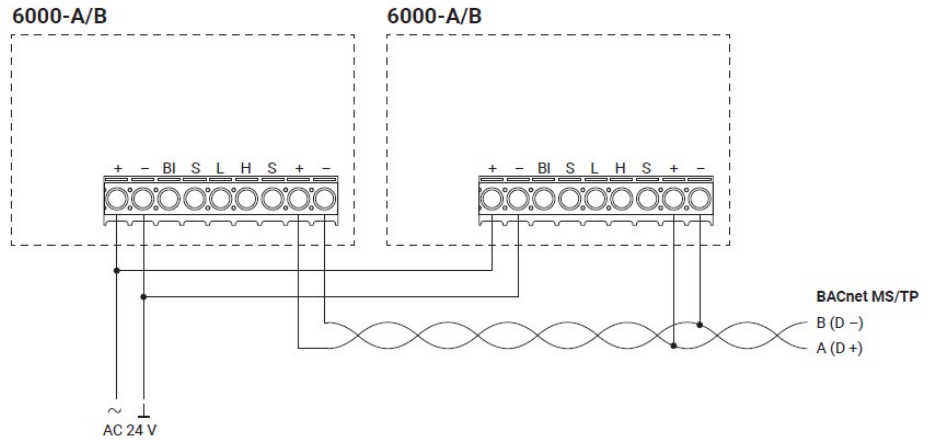
- 1 End of line (EOL) jumper: CAN bus  
Down position: Termination OFF (factory setting)  
Up position: Termination ON (first and last unit only should have this jumper in the up position)
- 2 Shield connected at the 1<sup>st</sup> unit only, at others only looped through
- 3 No connection to the ground

**Wiring CAN bus**

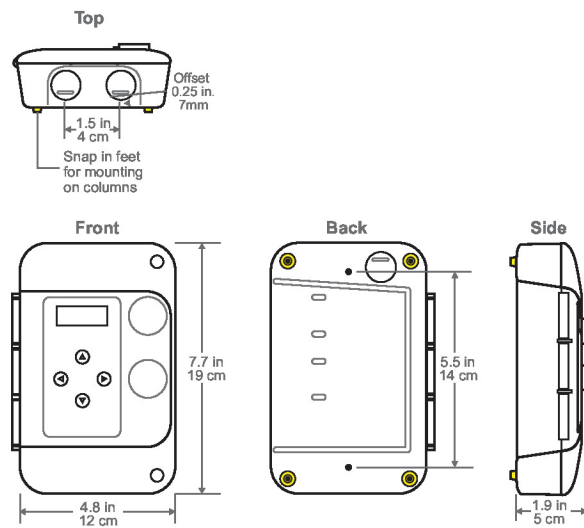
CAN bus



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]