

Gas Monitoring Devices





Innovation for peace of mind



HVAC system operation is critical for maintaining adequate safe indoor air quality (IAQ). Belimo gas monitoring systems provide accurate measurement, superior reliability, and easy installation. They can work as a standalone system or seamlessly integrate into major Building Management Systems (BMS). An intelligent peer-to-peer communication protocol allows users to configure and install a complete ventilation control system with only one monitor, or dozens, operating in multiple ventilation zones. The result is the assurance of occupant safety and comfort in buildings.



Superior performance

Belimo's gas monitors provide air quality monitoring for commercial properties. Closely monitoring airborne pollutants to control fresh air ventilation improves the health and wellbeing of occupants, while minimizing excess ventilation, resulting in reduced energy and maintenance costs. 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. The monitors can be easily assigned to groups on site for ventilation zoning on the same network, significantly reducing control wiring and installation time. Gas monitors are wired via a daisy chain and are required to be calibrated annually. All gas monitoring products are backed by a five-year warranty, with the exception of sensor modules, which are backed by a one-year warranty.



Seamless Integration

Enhanced communication and integration with major building management systems via BACnet MS/TP with select models.



Modular Design

The compact modular design allows for easy installation and commissioning to ensure optimal system performance.



Reliable and Dependable

Factory calibrated and designed from the highest quality materials delivering accurate and dependable readings.

"Belimo's gas monitors with dual sensors are great for enclosed parking garage applications requiring both CO and NO₂ gas monitoring and alarm. The ability to control the ventilation system from any one monitor makes installation easier and lowers total installed cost."

Robert Eddy, President EP Sales, Inc., Bloomington, MN

Intuitive design

Backlit Display



Inner Drip Seal

protects the electronics from condensation buildup

Programmable Interface

allows for easy access and configuration of 77 programmable settings

All vehicle emissions gas monitors (CO, NO₂, CO + NO₂) are certified under the gas and vapor detectors and sensors standards to UL.









Audible and Visual Alarms

allow for on-demand ventilation and relay activation



3 Conduit Knockouts





Peer to peer communication allows daisy-chain installation of up to 32 devices, reducing cabling.

Factory Calibrated Hot Swappable Sensor Modules can monitor up to two gases using one device.

CAN bus Network Gateway

allowing for standalone operation

BACnet MS/TP Network Gateway

for integration into a BMS

SPDT Relays

to directly control ventilation

3 models available:

- -A = CAN bus, BACnet MS/TP, 1 Relay, 2 Analog Outputs
- -B = CAN bus, BACnet MS/TP, 2 Relays*
- -C = CAN bus

*Model -B shown in image

Water and Condensation Outlet

2 Conduit Knockouts

BELIMO P/N 5502-250

BELIMO

NO2

Product range

Vehicle Emissions

Application		Model #	Old Model #	Outpu	ut signa	al		Measurin	g range	Communication		
				Active	1 SPDT relay	2 SPDT relays	2 analog 420 mA or 210 V	Carbon Monoxide	Nitrogen Dioxide	Measuring range	CAN bus	BACnet MS/TP
	Vehicle	22G02-5A	EXT-OP-6002-250-A							0250 ppm	•	
0	Emissions	22G02-5B	EXT-OP-6002-250-B					•		-	-	•
		22G02-5C	EXT-OP-6002-250-C	-						_	•	
		22G14-5A	EXT-0P-6014-A	-			•		•	010 ppm	_	•
0		22G14-5B	EXT-0P-6014-B						-	_	-	
		22G14-5C	EXT-0P-6014-C	-					•	_	•	
		22G0214-5A	EXT-6002-250-14-A	-			•	-		0250 ppm CO,		-
		22G0214-5B	EXT-6002-250-14-B	_		_			•	- 010 ppm NO ₂	•	•
		22G0214-5C	EXT-6002-250-14-C							_		

Indoor Air Quality

Application		Model #	Old Model #	Outpu	t signal			Measuring ra	Communication		
				Active	1 SPDT relay	2 SPDT relays	2 analog 420 mA or 210 V	Carbon Dioxide	Measuring range	CANbus	BACnet MS/TP
	Indoor	22G15-5A3	EXT-OP-6015-2000-A						02000 ppm		
	Air Quality	22G15-5B3	EXT-OP-6015-2000-B			_				_	
	Quanty	22G15-5A5	EXT-OP-6015-5000-A		-		-	•	05000 ppm	-	
		22G15-5B5	EXT-OP-6015-5000-B					•			
		22G15-5B6	EXT-OP-6015-10000B	-		-		•	010000 ppm		
		22G15-5C6	EXT-OP-6015-10000C					•			

Combustible and Toxic Gas Monitoring (Currently only available in Canada)

Application		Model #	Old Model #	Out	put siç	gnal		Mea	surin	g ran	ge						Commu	nication
				Active	1 SPDT relay	2 SPDT relays	2 analog 420 mA or 210 V	Ammonia	Methane	Propane	Hydrogen	Hydrogen Sulfide	Chlorine	Oxygen Leak	Oxygen Depletion	Measuring range	CAN bus	BACnet MS/TP
	Combustible	22G04-5A	EXT-OP-6004-A	_												0250 ppm		
0	and Toxic Gas	22G04-5B	EXT-OP-6004-B	_		_		_								-	_	_
		22G05-5A	EXT-OP-6005-A	_	_	_	_		_	_						050% LEL	_	_
		22G05-5B	EXT-OP-6005-B	-		-			-							-	•	
		22G05-5C	EXT-OP-6005-C						•							-	•	
		22G06-5A	EXT-OP-6006-A		-					-						•	•	
		22G06-5B	EXT-OP-6006-B	-		•				-					-	-	•	•
		22G06-5C	EXT-OP-6006-C	•						-							•	
		22G08-5A	EXT-OP-6008-A	•	•		-				•					_	•	•
		22G08-5B	EXT-OP-6008-B	-		•					-							
		22G08-5C	EXT-OP-6008-C	_					-		_					-	_	
		22G16-5A	EXT-OP-6016-A	-	-		_					-				050 ppm		
		22G16-5B	EXT-OP-6016-B	_		_						_				-		_
		22G17-5A	EXT-OP-6017-A	_	_	_	_	_	_	_	_	_	_	_	_	010 ppm		_
		22G17-5B	EXT-OP-6017-B	_	_	_		_	_	_	_	_	_	_	_			
		22G22-5A	EXT-OP-6022-A	_	_				-		-		-	_		050% O ₂		<u> </u>
		22G22-5B	EXT-OP-6022-B	-	- <u>-</u>	_								÷		-		-
		22G23-5A	EXT-OP-6023-A		_	_								_	_	-		
				_	_	_		_	_	_	_	_	_	_	-			_
		22G23-5B	EXT-OP-6023-B												_			

PF_59 - 07.2023 - Subject to technical modifications

Accessories

Application		Model #	Old Model #	Outpu	ıt signa	Communication				
				Active	1 SPDT relay	2 SPDT relays	4 SPDT relays	2 analog 420 mA or 210 V	CAN bus	BACnet MS/TP
0	Communication Modules	C-22G-5A	EXT-OP-6000-A	-	•					
6	Wieddies	C-22G-5B	EXT-OP-6000-B	•		-			•	•
		C-22G-5C	EXT-OP-6000-C							
	Relay Unit	C-22G-50	EXT-OP-6100	•			•		•	
	High-Low Kit	A-22G-A14	EXT-OP-6000-HL							

For all gas monitoring accessories, please see the Product Guide and Price List on the Belimo website.

