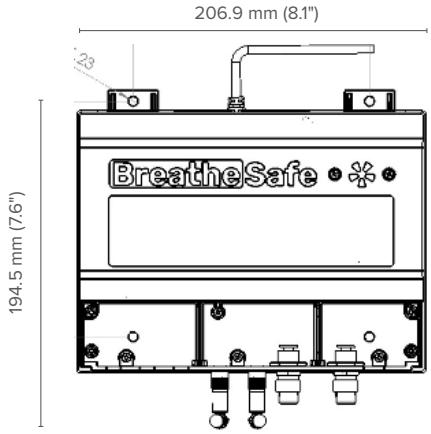
Technical Data Sheet
OnGuard Main Unit



200361 Main Unit

BreatheSafe's OnGuard main unit powers and controls all peripherals in the OnGuard family. The unit maintains enclosure air quality by adjusting the motor speed of BreatheSafe's filtration units. It also measures differential pressure and has several mechanisms, both locally and over external networks, for accessing the data it collects. Powering the unit and connecting it to BreatheSafe's pressuriser and recirculation filtration units is done via a 4-pin Deutsch DT plug, for which a custom wiring harness is provided.



Electrical Test Certifications

Reference	Standard
Abnormal Voltage	ISO 7637-2, pulse 1 (inductive switching)
	ISO 7637-2, pulse 2a (inductive switching)
	ISO 7637-2, pulse 2b (inductive switching)
	ISO 7637-2, pulse 3a (switching spikes)
	ISO 7637-2, pulse 3b (switching spikes)
	ISO 16750-2 (Load Dump Unclamped)
	ISO 16750-2 (Load Dump Clamped)
ESD Standards	ISO 10605 (Direct Discharge)
	ISO 10605 (Air Discharge)
24V Supply Charge	ISO 16750-2 (Switching Supply)
	ISO 16750-2 (Starting Profile)
	ISO 16750-2 (Reverse Polarity)
	ISO 16750-2 (Sustained High Voltage)
	ISO 16750-2 (Short Circuit)

Technical Data

Detail	Description
Part Number	200361
Outer Dimensions (LxWxH)	206.9 mm x 168 mm x 44.3 mm (206.9 (8.1") x 194.5 (7.6") x 44.3 (1.7") with Wi-Fi Antennas)
Mounting Locations (LxW)	140 x 140 mm (5.5") | Holes suit M4 bolts
Network Conenctivity	2.4 GHz Wi-Fi, Ethernet
Weight	609.25 g
Pressure Sensing Output	Differential pressure from -2000 to +2000 Pa
Pressure Sensing Accuracy	± 2%
Data Logging Interval	1 second
Historical Data Access	> 6 years
Security	Data access is password protected, with multi-level access
Data Access	Database download via web interface, HTTP web requests, MQTT
Current Draw	0.25 - 0.5 A
Operating Temperature	0 - 70°C
Operating Voltage	12 - 28 VDC
Lifetime	> 5 years
Physical Connectors	RJ45 (peripheral communications) | 4p Deutsch DT (power and motors)