

# FIDO® B2

## REAL TIME BIOLOGICAL AEROSOL THREAT MONITOR

CONTINUOUSLY OPERATING MONITOR  
EARLY WARNING OF BIOLOGICAL AEROSOL THREATS  
AUTOMATIC SAMPLE CAPTURE



### DETECT-TO-WARN SENSOR ARCHITECTURE

NEAR REAL TIME WARNING CAPABILITY  
ALLOWS EARLY PROPHYLACTIC TREATMENT  
MINIMIZES BUILDING CONTAMINATION VIA  
TRIGGERED HVAC MEASURES

### FEATURES

Provides near real time warning capability for biological aerosol threats

Government validated with over 1.3 million hours of run time in relevant environments

Alert can automatically trigger a particulate sampler for subsequent identification

Unattended 24/7 operation without consumables

Complete self-diagnostic system

Easily integrated with most facility monitoring and control systems

Alert algorithms validated for both indoor and outdoor environments

### OVERVIEW

The FIDO® B2, with IBAC technology, is a real-time continuously operating indoor or outdoor monitor that provides early warning of biological aerosol threats. The FIDO B2 facilitates the process of identifying bio-terror agents to allow timely containment, treatment and remediation. Monitors are designed to detect concentrated levels of biological aerosols. Possible agents released in a bio-threat attack can include bacterial spores (such as B. anthracis, which causes anthrax), bacteria (such as Y. pestis, which causes plague), viruses (such as smallpox) or toxins (such as ricin).

FIDO® B2, with IBAC technology, monitors can operate independently or as part of a network configuration to form the "first tier" of an airborne biological threat monitoring system. Communication and response can be managed through existing building control systems or an independent network.

In addition to providing real-time alerts to biological aerosol threats, the FIDO® B2, with IBAC technology, can trigger a secondary aerosol sample for subsequent analysis and identification. The C100™ modular tactical collector is designed for field collection of bioaerosols. The collector is based on proprietary rotating impactor technology and yields a 6 ml aqueous sample for field and laboratory analysis.



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### SPECIFICATIONS

Power Consumption	14 watts
Input Voltage	100 to 240 VAC
Case Dimensions	12 in x 8 in x 11 in (30 cm x 20 cm x 28 cm)
Weight	8.5 lbs (3.9 kg)
Communication	Ethernet, RS-232
Air Flow Rate	3.8 liters/minute
Operating Temperature	-5 to +125°F (-20 to +50 °C)
Storage Temperature	-40 to +160°F (-40 to +70 °C)
Operating Time	24 hours/day, continuously
Outputs	Particle data, bio-alarm, fault
Data Storage	Expandable internal MicroSD memory card
Aerosol Sizing	0.7 microns and larger
Maximum Aerosol Count Rate	25,000 particles/sec (500,000 particles/liter)
Measurement Frequency	Configurable down to 1/sec
Response Time	30 to 60 seconds
Enclosure	Aluminum, IP 66, weatherproof
Mounting	Mounts on vertical surfaces, horizontal surfaces or within secondary enclosure
Triggered Collection	Compatible with C100, BioXC™ and other triggered samplers

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