

# Bearing Health Monitor (BHM)



*Real-time Data + Intelligent Processing = Actionable Information*

Impact's BHM machinery health monitor is the perfect solution for your online machinery monitoring needs. BHM integrates proven algorithms with reliable, rugged commercially available hardware resulting in an extremely capable machinery health monitoring solution. Modular software and flexible hardware allow us to provide a system for your specific needs that can easily integrate into your existing system to protect your machinery and maximize safety.



## Applications:

- Machinery health monitoring
- Data collection
- Safety monitoring
- Process control

## Platforms:

- Gas turbines
- Gearboxes and Accessory drives
- Manufacturing machinery
- Generators
- Pumps
- Wind turbines

[impact-tek.com](http://impact-tek.com)

© 2010, Impact Technologies, LLC

**Headquarters  
New York Office**  
200 Canal View Boulevard  
Rochester, NY 14623  
Phone: 585.424.1990  
Fax: 585.424.1177

**Pennsylvania Office**  
270 Walker Drive, Suite 200W  
State College, PA 16801  
Phone: 814.867.5122  
Fax: 814.867.7550

**Georgia Office**  
75 Fifth Street NW, Suite 312  
Atlanta, GA 30308  
Phone: 404.526.6188  
Fax: 404.526.6189

# Impact's BHM machinery health monitor is the perfect solution for your online machinery monitoring needs.

## Capabilities:

**Customizable:** specific software and hardware components can be added to satisfy your specific needs, stand alone or distributed processing operation, built in webserver.

**Flexible:** support of most commons sensors including thermocouples, accelerometers, voltage and current inputs. Can also output voltages and currents to further integration possibilities.

**Rugged:** -40 to 70 C temperature range, 50 G shock rating, up to 2,300 VRMS isolation (withstand), various industrial certifications including hazardous location certification (for example U.S. (UL) Class I, Division 2, Groups A,B, C, D, T4; Class I, Zone 2, AEx nA IIT4).

**Reliable:** real-time operating system, , redundant power supplies, Watchdog timers, and other features lead to superb reliability.

**Small:** can fit almost anywhere due to small 88x180x88 mm (3.5x7x3.5 in) [HxWxD] footprint, weighs only 1.47 kg (3.5 lbs).

**Expandable:** can be expanded to accommodate more sensors by simply adding more input modules to chassis.

*"BHM integrates proven algorithms with reliable, rugged commercially available hardware resulting in an extremely capable machinery health monitoring solution."*

## Technical Specification (Typical)

The following table details some of the specifications of a typical system. Channel counts, sampling rates, and input ranges are module specific and may vary from what is shown.

Processor speed (MHz)	400
Memory (MB)	128
Nonvolatile memory (GB)	2
Power requirements (VDC)	18-24
Recommended power (watts)	48
Number of channels	16
Sampling rates (Hz)	200,000
Signal ranges (volts)	250