

The Vision—Experience the future of machinery protection and condition monitoring.

With more than five decades of monitoring and diagnostic expertise, GE's Bently Nevada product line is taking everything they've learned from customers to introduce the future of condition monitoring: the Advanced Distributed Architecture Platform Technology (ADAPT).

This GE Predictivity™ Solution provides advanced diagnostics and smart instrumentation to help pinpoint system problems—and show you how to fix them—before they lead to costly shutdowns. ADAPT's new three-step configuration process reduces installation errors by helping you quickly select the correct self-configuring sensors for your machines.

Working with the future in mind.

With the best global support and expertise in the industry, GE's Bently Nevada product line is improving the health of industry by keeping your operations running smoothly and without incident. As leaders in the Industrial Internet and providers of big data, GE combines intelligent machines, advanced analytics, and people at work. ADAPT advances this strong legacy by leading the way into the future of condition monitoring.

To learn more about the ADAPT product family and other innovative asset condition monitoring solutions from GE's Bently Nevada product line, contact your regional sales representative:



(Toll) +1 (775) 215-1818
(Toll Free) +1 (800) 488-1915
Fax: +1 (775) 215-2890
ADAPT.ge-mcs.com



www.ge-mcs.com

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GE
Measurement & Control

Advanced Distributed Architecture Platform Technology

ADAPT

Introducing the next phase
of machinery protection
and condition monitoring.





Smaller footprint. Bigger impact.

GE's Bently Nevada Advanced Distributed Architecture Platform Technology, or ADAPT 3701, is a family of compact, high-performance safety and machinery protection and condition monitoring solutions. ADAPT products are targeted at specific assets and applications, and excel at the intensive signal processing necessary to identify early indicators of machine failure modes long before an alarm.

The ADAPT 3701 family is targeted at machines ranked as essential to highly critical where a permanent on line protection and condition monitoring system is recommended. The compact form factor, sensor channel count, and signal-processing capability make the ADAPT 3701 monitors a great solution for machine trains with smaller sensor point counts and challenging mechanical dynamics.

Why GE customers choose ADAPT:

- Reduce installation and wiring costs
- State-of-the-art electronics and signal processing
- GE Predictivity solution providing tools for PdM
- Current generation platform ensuring long lifecycle support
- Global sales, services, and technical support, 24/7, with regional coverage and response time that only GE's Bently Nevada product line can offer



ADAPT 3701 Series:

Reliability. Availability. Productivity.

Take advantage of the future of condition monitoring with the ADAPT 3701 product family—a distributed architecture monitoring technology for critical and essential rotating equipment in multiple industries. The growing application-based ADAPT product family offers an easy, user-defined configuration that is skid-mountable, flexible, and optimized for multiple applications. Future releases will enhance GE's Industrial Internet capabilities with smart machine capabilities that continue to evolve and improve productivity.

ADAPT 3701 interfaces to Bently Nevada's next generation conditioned monitoring platform, System 1 Evolution. This enables strategic, data driven maintenance planning and decision making, to help optimize productivity and performance, allowing the ADAPT 3701 to be used a comprehensive condition monitoring solution.

Processor Module •
One monitor in each base plugs into a dedicated slot.
12 channels of vibration

Buffered transducer •
outputs at input Module
DSUB connectors.

Terminal Block Assemblies •
Two places, TB1 and TB2.
Sensor field wiring. Dynamic position. Removable. TB1 connects to input Module 1. ET option in future.

Input Module #1 •

Input Module #2 •

4-bolt/Stud Mount •
Top holes slotted. Cast aluminum base plate. Bulkhead mount.



Output Module
Relay contacts and other output types.

• Relay wiring lands on Output Module and exits upward.

• **Terminal Base**
Consists of base plate and backplane cover. Modules insert into the base.



ADAPT 3701/44* Aeroderivative Gas Turbine Monitor: More power and less downtime.

The ADAPT Aero Monitor is an asset specific member of the family designed specifically for aero's. The 3701/44 is targeted at all major OEMs as well as the GE LM series. Its OEM specific functionality and extensible signal processing go beyond "OEM spec" and make it a great solution for these difficult to monitor turbines.



ADAPT 3701/40* Machinery Dynamics Monitor: Tailored to your needs.

The ADAPT 3701/40 Machinery Dynamics Monitor is a versatile member of the ADAPT family delivering premier protection and condition monitoring for a broad range of critical assets. It is optimized for machinery with challenging dynamics, such as REB and gearbox applications, as well as traditional vibration and position measurements on sleeve bearing machines. This revolutionary product supports multiple customized measurement variables, industrial protocols, multiple vibration sensors, and monitoring options making it suitable for a broad range of machinery assets.



ADAPT 3701/46 Hydro Turbine Monitor: Designed specifically for protection and monitoring of hydro turbines.

The ADAPT Hydro Monitor is an asset specific member of the family giving you the opportunity to bring state-of-the art monitoring to smaller hydro turbines with lower vibration point counts. Optimized for hydro specific measurements—hi-order nX measurements to examine propeller and blade pass, to cavitation and rough load zone, the 3701/46 Hydro Monitor is the right choice for this class of hydro turbines.



ADAPT 3701/55 Emergency Shutdown Device (ESD): Our fast reaction time let's you stop the clock while there's still time.

GE's Bently Nevada product line has been the unquestioned standard for condition monitoring and API 670 compliance for over five decades. The ADAPT 3701/55 ESD enhances the ADAPT family as the most cost-effective integrated overspeed detection system and emergency shutdown device available for all classes of rotating equipment. With the fastest logic execution time (2ms) available and a quick (8ms) relay state change, you can be confident in the protection of your crucial machinery.

ADAPT 3701/55 has a SIL 3 certification.

*Also available with Dual Redundant Processing (Dual base).

Dimensions:

Simplex Base - 178mm x 254mm (7"x10")
Dual Base - 277mm x 254mm (11"x10")
3701/55 ESD - 293mm x 254mm (11.5"x10")