3701/40 ADAPT Machinery Dynamics Monitor

Datasheet

Bently Nevada Machinery Condition Monitoring

103M2037 Rev. K



3701/40 Simplex



3701/40 Duplex

Advanced Distributed Architecture Platform Technology - ADAPT

The 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.

Description

The 3701/40 Machinery Dynamics (MD) Monitor is designed for use on a broad range of machine trains or individual casings where the sensor point count fits the monitor's channel count and where advanced signal processing is desired. The 3701/40 is optimized for intensive signal processing required on complex machinery such as gearboxes, planetary gearboxes, and roller element bearing (REB) machines as well as offering advanced measurement capabilities on conventional monitoring methods such as radial vibration, thrust position, and casing absolute vibration. The 3701/40 Dual Redundant (DR) monitor is designed for applications that require a higher level of reliability from the vibration system.

The 3701/40 has a rugged industrial design allowing it to be skid mounted close to the machine and reduce installation wiring. Its compact size provides more mounting options compared to traditional rack based solutions. It is capable of accepting a wide array of sensor types, including eddy current proximity probes, accelerometers, velocity, acceleration, dynamic pressure, Integrated Circuit Piezoelectric Sensors (IEPE), and magnetic speed pick-ups.

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Table 2: Input Module Compatibility with Acceleration Inputs

Input Module	Accelerometer or Accelerometer Interface Module
PAS	155023-01 High Freq 200g Accel I/F Module 23733-03 Accel I/F Module 24145-02 High-Freq Accel I/F Module 330400 100 mV/g Accelerometer 330425 25 mV/g Accelerometer 330450 High Temp Accelerometer 350501 Acceleration Charge Amplifier 49578-01 Accel I/F Module Custom
PAV	155023-01 High Freq 200g Accel I/F Module 23733-03 Accel I/F Module 24145-02 High-Freq Accel I/F Module 330400 100 mV/g Accelerometer 330425 25 mV/g Accelerometer 330450 High Temp Accelerometer 350501 Acceleration Charge Amplifier 49578-01 Accel I/F Module Custom
PoV	GSI 122, 124 and 127 Galvanic Interface Unit TP100 Commtest Accelerometer TP500 Commtest Accelerometer 200350 Accelerometer 200355 Accelerometer
	786-500 Wilcoxon Accelerometer 626B02 PCB Accelerometer HS-170 Hansford Accelerometer HS-100F series Hansford Accelerometer CMSS-2100 SKF Accelerometer 351M35 PCB Accelerometer

Table 3: Input Module Compatibility with Velocity Inputs

Input Module	Velomitors, Seismoprobes, and Interface Modules
PAS	9200 Seismoprobe 74712 Hi Temp Seismoprobe 47633 Seismoprobe 86205 BoP Seismoprobe Custom
PAV	330500 Velomitor 330525 Velomitor XA 190501 Velomitor CT 330750 High Temp Velomitor 330752 High Temp Velomitor 330505 Low Freq Velocity Sensor 330530 Radiation Resistant Velomitor Custom
PoV	HS-160 Velocity Sensor

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PRODUCT: 23733-03 / ACCELERATION INTERFACE MODULE

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