3701/40 ADAPT PROCESSOR

Product Data Sheet

3701/40 177896-05

Machinery dynamics processor module

DYNAMIC INPUT CAPACITY	SPEED REFERENCE CAPACITY	SIGNAL-TO-NOISE RATIO	A/D CONVERSION
12 signals	**Two Keyphasor/speed signals**	**110 dB at 102.4 ksps**	**24-bit sigma-delta**

Bently Nevada 3701/40 177896-05 is the processor module for the ADAPT 3701/40 Machinery Dynamics Monitor. It processes as many as twelve dynamic signals and two Keyphasor or speed references, supporting configured vibration, position, speed and dynamic-pressure measurements.

01 TECHNICAL DATA

Dynamic input capacity	12 signals
Speed reference capacity	Two Keyphasor/speed signals
Signal-to-noise ratio	110 dB at 102.4 ksps
A/D conversion	24-bit sigma-delta
Processing bandwidth	0.0625 Hz-40 kHz
Ethernet interfaces	Two independent 10/100Base-T ports
Buffered connector	15-pin D-sub
Buffered output impedance	550 ohm
Synchronous nX selection	0.1x-100x in 0.1x increments
Configuration tool	Bently Nevada Monitor Configuration

02 ADDITIONAL PRODUCT DATA

Static data host	System 1 Evolution
Industrial client protocols	Modbus TCP and EGD
Alarm storage	Up to 512 MB with specified software/firmware
Transient storage	Up to 512 MB with specified software/firmware
Operating temperature	-30 to +65 degC

03 PRODUCT FUNCTION

The processor uses 24-bit sigma-delta conversion with a 0.0625 Hz-40 kHz bandwidth and two independent 10/100Base-T Ethernet connections. A 15-pin D-sub interface exposes buffered signals. BNMC software defines the channel measurements and validates available processing performance as measurement selections change.

04 SYSTEM COMPATIBILITY

Use BNMC to restore channel types, Keyphasor association, spectral bands and relay logic. Its performance calculator indicates remaining processing margin as measurements are added, so a valid channel count alone does not prove every measurement set is feasible.

05 REFERENCE

Bently Nevada 3701/40 ADAPT Monitor, 103M2037 Rev. K.

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