3701/46 ADAPT HYDRO

Product Data Sheet

3701/46

Hydroelectric machinery dynamics monitor

DYNAMIC SENSOR CAPACITY	SPEED REFERENCES	DC INPUT	MAXIMUM SIMPLEX CURRENT
12 points	**Two Keyphasor/speed signals**	**18-36 V DC**	**2.3 A**

Bently Nevada 3701/46 is the ADAPT Hydro Monitor designed for hydroturbine protection and condition monitoring. It supports up to twelve dynamic sensor points and two speed or Keyphasor references, with measurements adapted to low-speed hydro operation, radial vibration, thrust and casing vibration.

01 TECHNICAL DATA

Dynamic sensor capacity	12 points
Speed references	Two Keyphasor/speed signals
DC input	18-36 V DC
Maximum simplex current	2.3 A
Maximum duplex current	3.0 A
Processor inrush	3.0 A for less than 5 ms
A/D resolution	24-bit sigma-delta
Signal-to-noise ratio	110 dB at 102.4 ksps
Bandwidth	0.5 Hz-40 kHz
Ethernet ports	Two independent 10/100Base-T

02 ADDITIONAL PRODUCT DATA

Buffered interface	15-pin D-sub; 550 ohm
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Altitude	Below 2000 m
Mounting	Bulkhead; four corner fasteners

03 PRODUCT FUNCTION

The monitor accepts 18-36 V DC and uses 24-bit sigma-delta acquisition with a 0.5 Hz-40 kHz bandwidth. Two Ethernet ports and a 15-pin buffered signal connector provide host and service access. BNMC software configures the hydro-specific and conventional measurements and is licensed separately from the hardware.

04 SYSTEM COMPATIBILITY

Configure the exact hydro sensor arrangement through BNMC, including radial and thrust probes, casing transducers, timing references and any supported dynamic-pressure channels. Match PAS, PAV or positive-voltage input interfaces to their listed sensors.

05 REFERENCE

Bently Nevada 3701/46 ADAPT Hydro Monitor, 103M9138 Rev. J.

AMIKON PRODUCT SUPPORT

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