

190501 VELOMITOR CT

Product Data Sheet

190501-09-00-04

Low-frequency velocity vibration transducer

MOUNTING STUD	CONNECTION INTERFACE	AGENCY APPROVAL OPTION	SENSITIVITY
3/8-24 to 1/4-in NPT plate stud	2-pin MIL-C-5015; no integral cable	Multiple approvals, code 04	3.94 mV/mm/s $\pm 5\%$

Bently Nevada 190501-09-00-04 is a Velomitor CT low-frequency piezo-velocity transducer for casing vibration measurement. It belongs to the 190501 range and is intended for cooling-tower and air-cooled heat-exchanger fan assemblies operating at or above 90 rpm.

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VERIFIED TECHNICAL DATA

Mounting stud	3/8-24 to 1/4-in NPT plate stud
Connection interface	2-pin MIL-C-5015; no integral cable
Agency approval option	Multiple approvals, code 04
Sensitivity	3.94 mV/mm/s $\pm 5\%$
Frequency response	3 to 900 Hz ± 1 dB; 1.5 Hz to 1 kHz ± 3 dB
Velocity range	63.5 mm/s peak
Transverse response	Less than 5%
Amplitude linearity	$\pm 2\%$
Mounted resonant frequency	9 kHz minimum
Output bias voltage	10.1 V DC ± 1.0 V

ADDITIONAL PRODUCT DATA

Output impedance	Less than 400 ohm typical
Operating temperature	-40 to +85 deg C
Storage temperature	-40 to +100 deg C
Shock limit	5000 g peak
Mounting torque	4.5 N m ±0.6 N m

DOCUMENTED USE SETTINGS

Electricity Generation and Industrial Energy Production: Thermal Electric Power Generation.

Oil Production and Natural Gas Processing: Oil Exploration and Production.

Pulp Processing and Paper Manufacturing Production: Pulp Production Process Automation.

SYSTEM COMPATIBILITY

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PRODUCT EVIDENCE

Bently Nevada 190501 Velomitor CT official manufacturer datasheet; source pages 1, 2, 3, 6, 11