190501 VELOMITOR CT TRANSDUCER

Product Data Sheet

190501-CT

Low-Frequency Velocity Transducer

SERIES SENSITIVITY	SERIES FREQUENCY RESPONSE	SERIES PEAK VELOCITY RANGE	SERIES TRANSVERSE RESPONSE
3.94 mV/mm/s ±5%	**1.5 Hz to 1.0 kHz ±3 dB**	**63.5 mm/s**	**Less than 5% of axial sensitivity**

The Bently Nevada 190501-CT identifies the Velomitor CT family of piezoelectric velocity transducers. The sensor measures low-frequency casing vibration on cooling-tower and air-cooled heat-exchanger fan assemblies.

01 TECHNICAL DATA

Series sensitivity	3.94 mV/mm/s ±5%
Series frequency response	1.5 Hz to 1.0 kHz ±3 dB
Series peak velocity range	63.5 mm/s
Series transverse response	Less than 5% of axial sensitivity
Series amplitude linearity	±2% to 63.5 mm/s peak
Series output bias	10.1 ±1.0 V DC
Series dynamic output impedance	Less than 400 ohms typical
Series operating temperature	-40 to +85 °C
Series storage temperature	-40 to +100 °C
Series connector	2-pin MIL-C-5015

Bently Nevada 141636 Rev. AF, 190501 Velomitor CT series reference

02 ADDITIONAL PRODUCT DATA

Series case material	316L stainless steel

03 PRODUCT FUNCTION

The family has nominal sensitivity of 3.94 mV per mm/s and a peak velocity range of 63.5 mm/s. Its low-frequency response extends to 1.5 Hz at the stated tolerance. The full ordering code specifies the mounting and approval options for the supplied unit.

04 SYSTEM COMPATIBILITY

Compare the complete ordering code, mounting option and connector with the installed transducer.

05 REFERENCE

Bently Nevada 141636 Rev. AF, 190501 Velomitor CT series reference

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