

Bently Nevada - 330750 / 330752 High Temperature Velomitor System**330750-80-05**

High-temperature Velomitor system with 800 cm integral cable

Verified model data

Manufacturer	Bently Nevada
Exact catalog number	330750-80-05
Integral cable length	800 cm
Approvals	CSA, ATEX and IECEx
Sensitivity	5.7 mV/mm/s (145 mV/in/s), +/-5%
Frequency response	15 to 2000 Hz, +/-3 dB; 20 to 1000 Hz, +/-0.9 dB
Maximum amplitude below 680 Hz	635 mm/s peak
Maximum acceleration above 680 Hz	2940 m/s ² peak

Documented role

Measures machinery casing vibration at high-temperature locations while the integral hardline cable keeps the signal-conditioning electronics in a cooler zone.

Selection and installation check

Keep the permanently connected sensor, hardline cable and electronics as one assembly. Confirm the full code, temperature zone, bend radius, polarity, monitor sensitivity and hazardous-area drawings.

APTER POWER

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Linearity	+/-2% to 152 mm/s peak
Output bias voltage	-12 +/-2 VDC
Sensing-head temperature	-55 to +400 deg C
Integral-hardline temperature	-55 to +400 deg C
Electronics temperature	-55 to +121 deg C
Shock survivability	24,535 m/s ² (2500 g) peak
Minimum bend radius	5.1 cm
Weight	1.111 kg typical for the 800 cm system

Thermal installation

- The sensing head and integral hardline may operate up to 400 deg C, while the electronics must remain at or below 121 deg C.
- Use the 800 cm integral cable to maintain thermal separation without adding a field connector in the hot zone.
- Protect the hardline cable from sharp edges and observe the documented 5.1 cm minimum bend radius.

Signal and commissioning

- Configure the monitor for the documented velocity sensitivity, output bias and signal polarity.
- Verify mounting integrity, electronics temperature, baseline vibration and bias voltage before returning the machine to service.
- The documented uses include casing-vibration monitoring on hot turbines, compressors and other high-temperature machinery locations.

Evidence boundary: The Weight is the official typical value for the 800 cm system. No single complete-product Dimensions value is published for the cable assembly.

Source basis: Baker Hughes publication 141639 Rev. V.