

## Specifications and Ordering Information

### TK3-2 Calibration Instrument



#### Description

The TK3-2 Calibration Instrument simulates shaft vibration and position for calibrating Bently Nevada monitors. It verifies the operating condition of the monitor readouts as well as the condition of the proximity transducer system. A properly calibrated system means that the monitor readings and transducer inputs are accurate.

A spindle micrometer is used to check the transducer system and position monitor calibration. A probe mounting adapter provided with the TK3-2 holds the probe while the target is moved toward or away from the probe tip in calibrated increments. The output from the Proximitor® Sensor is recorded using a voltmeter.

Vibration monitors are calibrated using the motor-driven wobble plate. A swing-arm holder is located over the wobble plate to hold the proximity probe in place. The holder and probe are adjusted to a position where the desired amount of mechanical vibration is found. The vibration is then measured using a dial micrometer which is supplied with the unit (no oscilloscope is needed).

A vibration monitor's reading can then be compared to the known mechanical vibration signal input. The mechanical vibration signal from the TK3-2 can range from 50 to 254  $\mu\text{m}$  (2 to 10 mils) peak-to-peak.

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#### Specifications

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##### Inputs

###### Power

<i>Electric:</i>	95 - 125 Vac, 50/60 Hz, 1 A minimum. 190 - 250 Vac, 50/60 Hz, 1 A minimum.
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<i>Air:</i>	90 psi (6.2 bar) maximum.
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###### Wobulator Range

<i>Vibration Amplitude Range:</i>	50 $\mu\text{m}$ to 254 $\mu\text{m}$ (2 to 10 mils) peak-to-peak.
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###### Maximum Speed

<i>Electric:</i>	0 to 10,000 cpm $\pm$ 2,500 cpm.
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<i>Air:</i>	0 to 5,000 cpm $\pm$ 1,000 cpm.
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# Tk3 Vibration Manual

**Xiang Xie**



### Tk3 Vibration Manual:

Handbook of Construction Management for Instrumentation and Controls K. Srinivasan, T. V. Vasudevan, S. Kannan, D. Ramesh Kumar, 2023-12-13 HANDBOOK OF CONSTRUCTION MANAGEMENT FOR INSTRUMENTATION AND CONTROLS Learn to effectively install and commission complex high performance instrumentation and controls in modern process plants In Handbook of Construction Management for Instrumentation and Controls a team of experienced engineers delivers an expert discussion of what is required to install and commission complex high performance instrumentation and controls The authors explain why despite the ubiquitous availability of diverse international standards and instrument manufacturer data the effective delivery of such projects involves significantly more than simply fitting instruments on panels The book covers material including site management administration operations site safety material management workforce planning instrument installation and cabling instrument calibration loop check and controller tuning results recording and participation in plant commissioning exercises It also provides an extensive compendium of forms and checklists that can be used by professionals on a wide variety of installation and commissioning projects Handbook of Construction Management for Instrumentation and Controls also offers A thorough introduction to site operations including the principles of equipment installation and testing Comprehensive explorations of quality assurance and quality control procedures from installation to pre commissioning to site hand over Practical discussions of site administration and operations including planning and scheduling site safety and contractor permits to work change and delay management Detailed discussion of the installation and commissioning of complex instrumentation and control equipment Perfect for specialty contractors and subcontractors general contractors consulting engineers and construction managers and as a reference book for institutes teaching courses on Industrial Instrumentation Handbook of Construction Management for Instrumentation and Controls will also benefit students looking for a career in instrument installation **Mechanical & Chemical Engineering Transactions**, 1965

**English Abstracts of Selected Articles from Soviet Bloc and Mainland China Technical Journals**, 1962

International Books in Print, 1990 *Vibration Manual*, 1971 **Ride and Vibration Data Manual**, 1965

**Instructor's Manual -- Mechanical Vibration** CRC Press, 2010-03-05 Advanced Audio-visual Customer Training IRD Mechanalysis, Inc, 1980 **Vibration Manual** George C. Marshall Space Flight Center, 1971 **Advanced Stress and Vibration Analysis**, 1989 Advances Stress and Vibration Analysis, 1989 **Solutions Manual for Principles of Vibration** Benson H. Tongue, 1996 Solutions manual to accompany the text Principles of Vibration by Tongue **Vibration and Noise** Motor Co. Ltd Nissan, *Vibration and Noise*, 1986 **Noise, Vibration & Harshness Diagnosis Manual**, 1990 **Transportation and Construction Vibration Guidance Manual**, 2001 **Shock and Vibration Handbook** Cyril M. Harris, Charles E. Crede, 1976 **Manual for the Basic Percussion Vibration Technique of Dr. Robert Fulford** Jeff Rockwell, 2000 **Noise and Vibration in Cars and Trucks** L. Colechin, 198? Dynamics & vibration analysis, 1994

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