

TK-3 Proximity System Test Kit

Completely updated calibration instrument features improved portability, ruggedness, and flexibility

The specialized nature of proximity probe measurements requires a specialized calibration instrument, capable of introducing fixed gap (i.e., position), changing gap (i.e., vibration), and rotative speed signals into the transducer for verification and testing purposes. Fixed gap is provided by clamping the probe into a stationery position while a movable target on a spindle micrometer is adjusted. Simulated vibration is provided by clamping the probe into a movable swing arm, observing a precision-machined wobble plate that rotates, introducing a known amount of changing gap with each rotation. Finally, shaft rotative speed is simulated by observing a Keyphasor* notch on the side of the rotating wobble plate.

The TK-3 Wobulator* provides all of these functions in a portable kit, designed specifically to endure the rigors of field use. It allows users to test and verify the entire measurement path, from the tip of the probe all the way through to the monitor's visual indicators, relay contacts, and digital/analog interfaces.

Today, we're pleased to announce an all-new TK-3. Our engineers consulted extensively with customers and our own field service personnel to ensure that this new test kit retained the simplicity and functionality of its predecessors, while providing enhanced durability, reliability, and usability.



Our popular TK-3 Proximity System Test Kit has been completely redesigned and is available in both air-powered (left) and electric-powered (right) versions.



The TK-3's new detachable spindle micrometer provides added flexibility.

- The weight has been reduced by 20% for easier carrying from shop to jobsite.
- Available in both air-powered¹ (TK-3g) and 110/220 Vac electric-powered (TK-3e) versions.
- An all-new industrial-strength case dramatically improves durability, able to withstand the rigors of field use while better protecting the precision devices inside.
- The drive motors of both versions are completely maintenance-free and the air-powered version now incorporates a filter that helps to further prolong the life of the motor.
- A detachable spindle micrometer with magnetic base allows users to carry only the micrometer to the probe location rather than toting the entire test kit. For example, one person can be generating probe curves while another is simulating vibration to perform loop checks and verify monitoring system displays.
- A universal probe mount accommodates probe diameters from 5 to 19mm, eliminating the need for multiple adapter collars when clamping probes into the micrometer or wobble plate—fewer parts to fumble with in the field, fewer parts to misplace.

Additional information is available in the TK-3's datasheet. Request a copy from your nearest GE Energy sales professional specializing in Bently Nevada* Asset Condition Monitoring products, or by using the Reader Service Card in this issue of ORBIT. You can also instantly access a copy by using the online version of our Reader Service Card at www.orbit-magazine.com.

*Denotes a trademark of the General Electric Company.

¹ The TK-3g is powered with compressed air (up to 100 psi) and is intended for use when electric power is not readily accessible or when the kit will be used in a hazardous (flammable) atmosphere. Hazardous area approvals for the TK-3g are currently pending and are expected by late 2007.

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1631 Bently Parkway South, Minden, Nevada USA 89423

Phone: 1.775.782.3611 Bently.com

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