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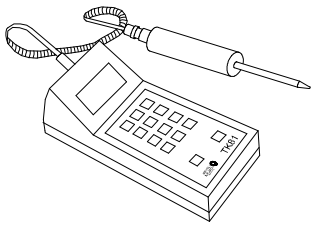
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Find the *GE / Bently Nevada TK81* at our website: *Click HERE*

Specifications and Ordering Information

TK81 Tunable Filter/Vibration Meter



Description

The TK81 Tunable Filter/Vibration Meter is a portable handheld instrument for basic vibration measurements. It can display vibration in both unfiltered (overall) and filtered modes. It accepts inputs from displacement, velocity, and acceleration transducers but does not provide power for them.

Its filtering capability is particularly useful for diagnosing vibration problems occurring at particular frequencies on all types of machinery.

Specifications

Inputs

Signal:	Accepts displacement, velocity, or acceleration.
Maximum Input:	10 V peak-to-peak.
Scale Factor:	Selectable from 5 to 9999 mV per engineering unit.
Input Impedance:	95 k Ω.

Signal Conditioning

Frequency Response:	1.66 Hz to 1,666 Hz (100 to 100,000 RPM).
Integration:	Single integration is available for frequencies above 10 Hz (600 RPM).

Filter

Operating Range:	1.66 Hz to 1,666 Hz (100 RPM to 100,000 RPM).
Type:	Digital, approximates an analog filter with a Q of 11.

Outputs

Display:	4 line by 16 character LCD
Display Units:	Selectable Metric or English,
	peak-to-peak, zero-to-peak, or rms**.
	** RMS readings may fluctuate @ < 10 Hz (600 RPM).
Accuracy: Within 5%	* Non-Filtered, Non-Integrated Signals @ Full Freq Range
	* Non-Filtered, Integrated Signals @ 10-16.67k Hz (600-100k RPM)
Within 10%	* All RMS Measurements
	* Filtered, Non-Integrated Signals @ Full Freq Range
	* Filtered, Integrated Signals @ 10-16.67k Hz (600-100k RPM)

CE

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Power Requirements

Battery:	9-Volt alkaline transistor battery. (NEDA 1604A).
Battery Life:	20 hours nominal.

Environmental Limits

Operating Temperature:	+0°C to +40°C (+32°F to +104°F).
Storage Temperature:	-20°C to +70°C (-4°F to +158°F).
	Note: A battery stored above +104°C (+219°F) or below 0°C (+32°F) will have a reduced shelf life.
Relative Humidity:	To 90% noncondensing.

Physical

Size	
Height:	191 mm (7.5 in)
Width:	102 mm (4.0 in)
Depth:	58 mm (2.3 in)
Weight:	316 g (0.7 lb)

Ordering Information

80649-01
TK81 Tunable Filter/Vibration Meter
Option Description

Includes:

- **1** TK81
- **1** 9200-09-01-01-00 Velocity Seismoprobe®
- **1** Seismoprobe® Cable and extension rod
- **1** Magnetic base
- **1** Soft carrying case
- **1** Manual
- **2** Batteries (1 spare)

Accessories

80466-02	TK81
88737-01	User Manual
9200-09-01-01-00	Velocity Seismoprobe®
7989-01	9200 Velocity Seismoprobe® Extension rod
46000-01	Magnetic Base
46122-01	Quick Connect
80705-01	Interconnect Cable
04160151	Soft Carrying Case
04160152	Strap
03282910	Foam insert

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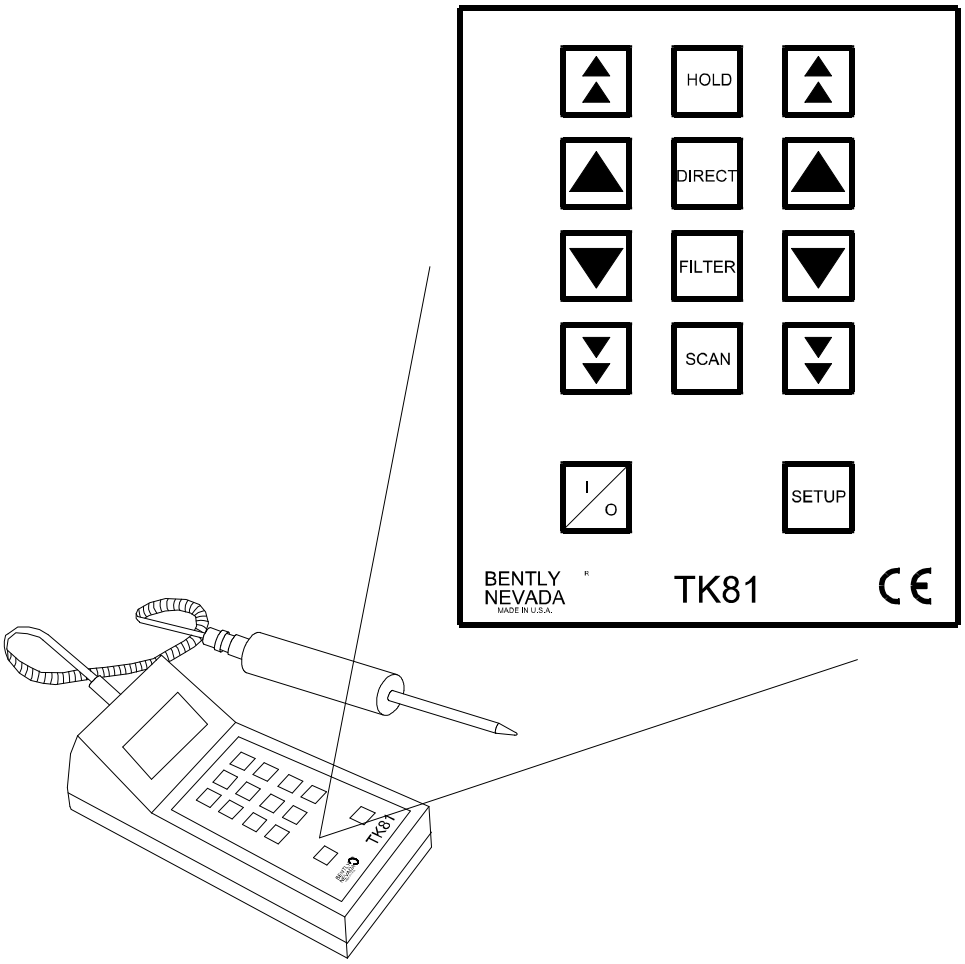


Figure 1: Close-up of the TK81 Keypad

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