

PenCheck_®

MODEL PK1

World's first pocket-size economical ultrasonic and temperature testing instrument. Detects steam, air and gas leaks, bearing problems and pump cavitation.

Features

Multiple function

- Pen-size precision instrument for accuracy and ease of use.
- Analog and digital display plus audible function provides fast and accurate interpretation.
- Band-pass filter eliminates misleading background noise, focusing on high frequencies for improved accuracy over conventional ultrasonic detectors.
- Indicates surface temperature for diagnosis, safety or valve adjustment.

Steam traps and valves.

- Detects steam and air leakage through valves.
- Helps determine steam leakage when compared to properly functioning traps.



Bearings and pumps.

- Provides a Crest Factor (CF)* value for analysis of bearing condition and early warning of defects.
- Determines pump cavitation.

Specifications

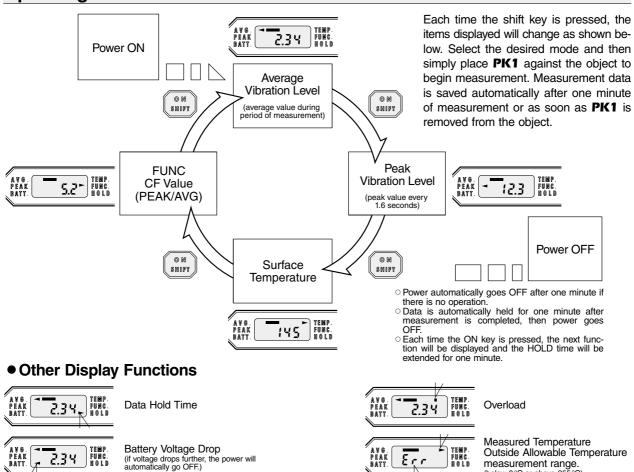
Temperature Measurement Range		0 – 255°C
Central Frequency		Approximately 40 kHz
Band Width		Approximately 20 kHz (-3dB)
Display	Average Vibration Level	0.00 - 255.0 Scale Reading (AVG)
	Peak Vibration Level	0.00 – 255.0 Scale Reading (PEAK)
	Surface Temperature	0 – 255°C (TEMP)
	CF Value*	0.0 - 199.0 (FUNC)
	Level Indicators	Vibration levels are shown in bar graph form as well as on a digital display.
	Overload	Indicators appear if the vibration level limit is exceeded or if the surface temperature falls outside the allowable measurement range
Measurement "Auto Start"		Measurement begins automatically when the tip of PK1 is placed against the object to be measured
Data Display "Auto Hold"		When the tip is removed from the tested object, data is automatically retained
Auto Power-off		Yes
Power Source**		One (1) lithium battery pack (3CR-1/3N)
Total Battery Use Time		Approximately 5 hours
Weight		Approximately 65 g
Standard Accessories		Hard case, extra battery packs, earphone, manuals, flat file

^{*} CF Value (Vibration Level = Peak ÷ Average).

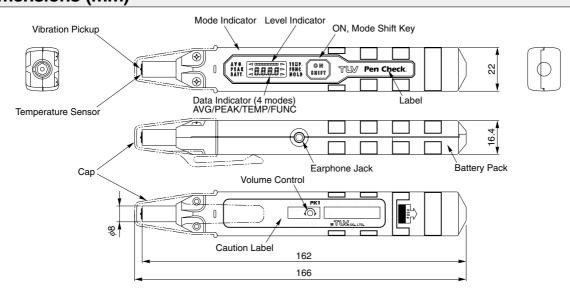
^{**} A message is displayed when battery voltage is low; when it drops lower, power is automatically cut.

Consulting & Engineering Service

Operating Procedure



Dimensions (mm)



Manufacturer

measurement range. (below 0°C or above 255°C)



ISO 9001/ISO 14001

Kakogawa, Japan