

909Z-6 MULTI-PARAMETER VIBRATION METER & MACHINE CONDITION CHECKER



APPLICATION

Multi-Parameter Vibration Meter and Machine Condition Checker for checking & predictive maintenance of motors, fans, bearings, turbines, generators and most moving machinery.

FEATURES:

- ◆ Multi-parameter vibration, bearing parameter (acceleration envelope) & IR temperature measuring
- ◆ One button control power, parameter selection, ISO10816 group selection, measurement and holding.
- ◆ With remote switch and magnet base to avoid handheld problem to get reliable and consistent data.
- ◆ Measuring vibration velocity, displacement & acceleration envelope to check machine/bearing health with yellow/red/green LED indicator
- ◆ Build-in ISO10816-2 & -3 groups selectable
- ◆ 4 digital LCD display
- ◆ Optional magnet base and remote switch
- ◆ Sensor included, Easy to use.
- ◆ Automatic power off.
- ◆ Metal case, Robust, Reliable
- ◆ Both Metric & English Unit

SPECIFICATIONS

Measurement Range & Frequency Response	
Acceleration:	0.1 ~ 100 m/s ² / 0.01 ~ 10g / 10Hz ~ 1kHz
Velocity:	0.1 ~ 250 mm/s / 0.01 ~ 15 inch/s / 10 Hz ~ 1000 Hz
Displacement:	1 ~ 3000 μm / 0.03 ~ 120 mil / 10 Hz ~ 500Hz
Enveloped Acceleration:	0.1 ~ 25 unit / 5Hz ~ 2kHz demodulated from 3kHz~10kHz
Temperature:	-33° to 220°C / -27.4° to 428°F
Accuracy:	± 5% ± 2 Digits
Battery:	1/2 AA, 3.6V, 20-29mA, >100 hours of continuous operation.
Pickup:	Integrated accelerometer with extension stinger
Dimensions:	110x35x17 mm; Weight: 100 g (Including battery)

INDICATION OF MACHINE HEALTH ACCORDING TO ISO 108612-2/3

Velocity measured

ISO 10816-3 Machinery Group 1-4

Velocity mm/s (RMS)	Group 2&4		Group 1&3	
	Rigid	Flexible	Rigid	Flexible
11	Damage Occurs			
7.1	Restricted Operation		Unrestricted Operation	
4.5	Restricted Operation		Unrestricted Operation	
3.5	Restricted Operation		Unrestricted Operation	
2.8	Unrestricted Operation		Unrestricted Operation	
2.3	Unrestricted Operation		Unrestricted Operation	
1.4	Newly Commissioned			

ISO 10816-2 Steam Turbines And Generators

Velocity mm/s (RMS)	Speed (RPM)	
	1500	3000
11.8	Damage Occurs	
10	Restricted Operation	
8.5	Restricted Operation	
7.5	Restricted Operation	
5.3	Unrestricted Operation	
3.8	Unrestricted Operation	
2.8	Newly Commissioned	

Displacement measured

Displacement μ m (Peak_Peak)	Group 4		Group 3	
	Rigid	Flexible	Rigid	Flexible
396	Damage Occurs			
320	Damage Occurs			
255	Damage Occurs			
158	Restricted Operation		Unrestricted Operation	
102	Restricted Operation		Unrestricted Operation	
79	Restricted Operation		Unrestricted Operation	
62	Unrestricted Operation		Unrestricted Operation	
51	Unrestricted Operation		Unrestricted Operation	
31	Newly Commissioned			

Displacement μ m (Peak_Peak)	Group 2		Group 1	
	Rigid	Flexible	Rigid	Flexible
396	Damage Occurs			
320	Damage Occurs			
255	Restricted Operation		Unrestricted Operation	
201	Restricted Operation		Unrestricted Operation	
161	Restricted Operation		Unrestricted Operation	
127	Unrestricted Operation		Unrestricted Operation	
105	Unrestricted Operation		Unrestricted Operation	
82	Unrestricted Operation		Unrestricted Operation	
62	Newly Commissioned			