

# SENDIG

## 909z-6 Multi-Parameter Machine Condition Meter

Extremely reliable and potable, low cost instrument specifically designed for on site maintenance in your plant or workshop. This easy to use instrument requires little operator training.

### Features:

- Small pen-size with accelerator included.
- Automatic power off.
- 4 digital LCD display.
- Displays both Metric & Imperial Units.
- Multi-parameter vibration, bearing parameter (acceleration envelope) & IR temperature measurements.
- One button control power, parameter selection, ISO10816 group selection, measurement and hold function.
- Includes remote switch and magnet base to avoid handheld problems for reliable and consistent data.
- Measuring vibration velocity, displacement & acceleration envelope to check machine/bearing health with yellow/red/green LED indicator.
- Build-in ISO10816 Group 2 & -3 selectable.
- Optional external or integrated accelerometer
- Optional magnet base and remote switch
- 3 year warranty.



### Specifications:

Range	Displacement 0.1 – 3000 $\mu\text{m}$ (or 0.03 – 120 mil) Velocity 0.1 – 250 mm/s (or 15 in/s) true RMS Acceleration 0.1 – 100m/s <sup>2</sup> (0.01 – 10g) High Frequency Acceleration Enveloping 0.1 – 25 units
Overall Accuracy	$\pm 5\%$
Operation Environment	0 - 50°C & Relative humidity < 85%
Frequency response	Displacement 10 – 500 Hz Velocity 10 – 1000 Hz Acceleration 10 – 1000 Hz Envelop Acceleration 5 Hz – 2 kHz, demodulated from 3kHz – 10kHz
Battery	2 AA batteries, 3.6 V, 20-29 mA & >100 hours of continuous operation
Dimensions	110mm x 35mm x 17mm (w x d x h)
Weight	100g (include batteries)
Case Material	Aluminum

### Distributed By:

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Indicator for machine health according to ISO 10816-2/3:

**ISO 10816-3 Machinery Group 1-4**

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

Displacement measured µm (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	Unrestricted Operation			
79	Unrestricted Operation			
62	Unrestricted Operation			
51	Unrestricted Operation			
31	Newly Commissioned			

**ISO 10816-2 Steam Turbines And Generators**

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

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

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