

# EMIN

Testing & Measuring Everything

SENDIG - S909Z-5 Multi-Parameter Machine Condition Checker



## Product Introduction

### S909Z-5 Multi-Parameter Machine Condition Checker

#### Features:

- ◆ Multi-parameter vibration, bearing parameter (acceleration envelope) & IR temperature measuring
- ◆ One button control power, parameter 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
- ◆ 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:**

- ◆ Accuracy + 5% +2 digits
- ◆ Measurement Range & Frequency response :
  - Acceleration: 0.1 to 100 m/s<sup>2</sup> / 0.01 to 10 g / 10Hz~1kHz
  - Velocity:0.1 to 250 mm/s / 0.01 to 15 inch/s / 10Hz~1000Hz
  - Displacement: 1 to 3000 μm / 0.03 to 120 mil / 10 Hz~500Hz
  - Enveloped Acceleration: 0.1 to 25 unit / 5Hz~2kHz demodulated from 3kHz~10kHz
  - Temperature:-33 to 220 °C / -27.4 to 428 °F
- ◆ 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)

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

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		
4.5		Unrestricted Operation		
3.5				
2.8				
2.3				
1.4	Newly Commissioned			

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

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

Displacement measured

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

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