



SHOCK PULSE ANALYZER – 888

8 Functions in one

Shock Pulse, Vibration (Vel, Accl & Disp.) Tachometer, Infrared Temperature, Stethoscope & Current Clamp)

Features

- Shock Pulse Measurement
(Mechanical & lubrication, damage development of bearing)
- Vibration Measurement all three parameters
(Displacement, Acceleration & Velocity)
- Laser Tachometer measurement
- Infrared Temperature measurement
- Current Clamp measurement (A/C)
- Direct indication of machine condition
in terms of good–reduced-bad in bearing function
- Stethoscope (Mechanical sounds detection)
For easy location of machinery noise in
Industrial Environment
- Microprocessor based
- Back light LC Display
- Auto Off
- Battery Low Indication



MCM Presents a small Micro Processor based diagnostic tool for comprehensive condition analysis of rotating machinery. Objective measurements of machine condition are needed as a reliable base for preventive maintenance. Now maintenance personal can **analyze bearing** (mechanical & lubrication) **condition, measure / detect machine vibration, and check rotational speed, temperature, Stethoscope (Noise) & current** - with a single and easy to use instrument. The best way is to periodically monitor machine condition for production efficiency.

Bearing Monitoring:

Shock Pulse Analyzer 888 gives a direct indication of bearing condition on a green-yellow-red scale which allows an instant distinction between good and bad bearings. Thus, the Shock Pulse Analyzer 888 is equally suitable for fast routine checks and for the detailed analysis of critical bearings, supplies digital shock value readings plus accurate information on lubrication condition and damage severity readings for rolling bearings.

Early bearing damage detection: The main purpose of bearing condition measurements is the detection of individual damaged bearings in time for a planned replacement. This method is less expensive and more reliable than periodic replacements, because a bearing that has not failed before its scheduled replacement is likely to be serviceable for a long time

The Shock Pulse Analyzer 888 indicate bearing damage by displaying:

- an arrow against the red sector of the condition scale
- (SI) a severity index number which increases with the severity of surface damage.
- (BS) Bearing Status D = typical damage pattern detected

Analyzing lubrication condition: The fact that the service lift of bearings is mainly dependant on lubrication is well known. Very large sums can be saved if bearing life can be extended by improving lubrication. The Shock Pulse Analyzer 880 displays a lubrication number(LFT) which increases in proportion with the thickness of the lubricant film between the rolling elements and the raceway in the loaded part of the bearing

Technical Specifications

<ul style="list-style-type: none"> • Shock Pulse Function: Measuring Range: -19 to 99 dBpv 	<ul style="list-style-type: none"> • Current Clamp: Measuring range: up to 200 Amps (A/C)
Resolution: 1 dBpv	Resolution: 1Amp
VIBRATION FUNCTION :	Accuracy: ± 2%
<ul style="list-style-type: none"> • Velocity : 0.1 – 200 mm/s True RMS 	Clamp jaw size: 16mm dia.
<ul style="list-style-type: none"> • Acceleration: 0.1 – 566 m/s² Peak 	<ul style="list-style-type: none"> • Noise: Frequency 30 HZ to 20KHZ Head set: Stereo type
<ul style="list-style-type: none"> • Displacement: 1 – 2800 µm Peak – Peak 	<ul style="list-style-type: none"> • Power Supply: Lithium Ion Rechargeable Battery
Resolution: 0.1 mm/s	<ul style="list-style-type: none"> • Display: 4 x 16 line back light dot matrix LCD
Accuracy: ± 2% + 0.1 mm/s	<ul style="list-style-type: none"> • Operating Temp. Range: 0 - 55°C
Frequency response: 10 – 1khz	<ul style="list-style-type: none"> • Sealed Membrane key pad
<ul style="list-style-type: none"> • Laser Tachometer: Measuring Range: up to 20,000 rpm 	<ul style="list-style-type: none"> • Input Connectors: BNC,TNC & Round
Resolution: 1 rpm	<ul style="list-style-type: none"> • Casing: ABS
Accuracy: ± (1 rev. + 0.1% of reading)	<ul style="list-style-type: none"> • Size: 230x100x45 mm
<ul style="list-style-type: none"> • Infrared Temperature: Measuring Range: 0 - 550°C 	<ul style="list-style-type: none"> • Weight: 750gms (Approximately)
Resolution: 1°C	
Accuracy: ± 2% of reading or 2°C	
Field of View: D/S = Approx. 8:1 ratio	

Standard Supply

- **Shock Pulse Analyzer – 888**
With protective cover
- Shock Pulse Probe - 1no
- Head Phone - 1no
- **Vibration sensor – 1no**
- Power full Magnetic Base – 1no
- Hand held probe rod
- Cable with connectors 1no
- **Laser Tachometer Probe - 1no**
- **Infrared Temperature Probe - 1no**
- **Current Clamp -1no**
- Charger - 1 no
- Instrument Manual - 1no
- Test & Calibration Report with Warranty/Guarantee Certificate
- Carry Bag



MCM INSTRUMENTS

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Technical data are subject to change without notice