



An ISO 9001:2015 certified company

Bearing Checker BC – 110TN

Shock Pulse, Tachometer, Infrared Temperature & Electronic Stethoscope

Features:

- Shock Pulse Measurement
(Mechanical & lubrication, damage development of bearing)
- Laser Tachometer measurement
- Infrared Temperature measurement
- 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 temperature check rotational speed** - with a single and easy to use instrument. The best way is to periodically monitor machine condition for production efficiency.

• Bearing Monitoring:

Bearing Checker BC-110TN 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 BC-110TN 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 Bearing Checker BC-110TN 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 Bearing checker **110TN** 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

• Infrared Thermometer probe: The Infrared Temperature Probe is a noncontact temperature measurement

• Laser Tachometer : The Laser Tachometer probe is a noncontact tachometer measurement

• **Electronic Stethoscope:** The need to eavesdrop on mechanical sounds within machinery is essential in any maintenance department. Mechanical faults can often be heard. The problem is to locate the sound source quickly and accurately in a generally noisy environment. The electronic stethoscope is a sensitive listening stick, for location of all kinds of machinery noise. Valve chatter, tappet noise, piston slap, gear and pump noise and the operation of relays and solenoids are just a few of the many noises that maybe traced, amplified and assessed with this device.

Technical Specifications

<ul style="list-style-type: none"> • Shock Pulse Function: Measuring Range: -19 to 99 dBpv 	<ul style="list-style-type: none"> • Electronic Stethoscope: (Noise) Frequency Range
Resolution: 1 dBpv	30 HZ to 20KHZ
	Head set: Stereo type
<ul style="list-style-type: none"> • Infrared Temperature: Measuring Range: 0 - 550°C 	<ul style="list-style-type: none"> • Display: 4 x 16 line back light dot matrix LCD
Resolution: 1°C	Operating Temp. Range: 0 - 55°C
Accuracy: ± 2% of reading or 2 °C	Sealed Membrane key pad
Field of View: D/S = Approx. 8:1 ratio	Input Connectors: TNC & Round
	Size: 230x100x45 mm
<ul style="list-style-type: none"> • Laser Tachometer: Measuring Range: up to 20,000 rpm 	Weight: 750gms (Approximately)
Resolution: 1 rpm	Power Supply: Lithium Ion Rechargeable Battery
Accuracy: ± (1 rev. + 0.1% of reading)	Casing: ABS

Standard Supply

- **Bearing Checker– BC-110TN**
With protective cover
- **Shock Pulse Probe - 1no**
- **Head Phone - 1no**
- **Laser Tachometer Probe - 1no**
- **Infrared Temperature Probe - 1no**
- **Noise probe road 1no**
- **Charger - 1 no**
- **Instrument Manual - 1no**
- **Test & Calibration Report with Warranty**
- **Guarantee Certificate**
- **Carry Bag**



Technical data are subject to change without notice

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