

# VB92 2Ch Vibro Balancer

## Machine Condition Monitoring

Tavator Sepahan Condition Monitoring Systems



### Description

VB92 is a 2 ch. portable Vibrometer and Balancer. It uses 2 standard 100mv/g accelerometers (and Proximity Probe or Velocity pickup optionally) for measuring overall vibration and BCU and assesses machine conditions against selectable ISO 2372 vibration severity standard. It can evaluate unbalance condition with manual entry or measuring machine rpm filtering. Balancer can perform full features 1 plane and 2 planes field balancing jobs. Full color, bar graph, vector display, level and phase history and 2 channel measuring and computations in 1 plane balancing are unique features of VB92, offers versatile and expert sense for better balancing jobs.

### Uses:

- Machinery overall vibration measurement.
- Bearing Condition (BCU) measurement.
- Unbalance condition evaluation.
- 1 Plane and 2 Planes Field Balancing.

### Specifications

#### Alarms

<b>Vibration input:</b> <ul style="list-style-type: none"> <li>• Accelerometer (100 mv/g).</li> <li>• Proximity Probe (optional).</li> <li>• Velocity Pickup (optional).</li> </ul>	<b>Battery:</b> <ul style="list-style-type: none"> <li>• 5 hours minimum, in use</li> <li>• 4x1.2 V Ni-MH</li> </ul>
<b>Tacho Input:</b> <ul style="list-style-type: none"> <li>• Photo electric probe. NPN, PNP, TTL.</li> </ul>	<b>LCD:</b> <ul style="list-style-type: none"> <li>• 480x272 TFT 16 Million color</li> </ul>
<b>Memory:</b> <ul style="list-style-type: none"> <li>• 32 MB on-board RAM memory.</li> <li>• 12 MB Flash storage.</li> <li>• 2 GB SD (optional).</li> </ul>	<b>Units:</b> <ul style="list-style-type: none"> <li>• mm/s</li> <li>• IPS (Inch/s)</li> </ul>





#### Signal Processing

<b>LLF:</b> <ul style="list-style-type: none"> <li>• 1 Hz</li> </ul>	<b>Filter Order:</b> <ul style="list-style-type: none"> <li>• Order 2</li> </ul>
<b>ULF:</b> <ul style="list-style-type: none"> <li>• 1 KHz</li> <li>• 10 KHz</li> </ul>	<b>ADC</b> <ul style="list-style-type: none"> <li>• 16 Bit</li> <li>• 100 Khz</li> </ul>
<b>Antialiasing Filter</b> <ul style="list-style-type: none"> <li>• 8 Order</li> </ul>	

#### Physical

<b>Dimension:</b> <ul style="list-style-type: none"> <li>• 200 x 170 x 45 mm</li> </ul>	<b>Weight:</b> <ul style="list-style-type: none"> <li>• 1150 gram</li> </ul>
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Environmental Limits	
<b>Operating Temperature:</b>	• -5°C to +55°C
<b>Operating Humidity:</b>	• 5% to 95% Non-condensing relative humidity
<b>IP:</b>	• IP 55
<b>Storage Temperature:</b>	• -40°C to +85°C
<b>Storage Humidity:</b>	• 5% to 95% Non-condensing relative humidity
	•

Main Displays			
<b>Vibration and BCU</b>		<b>Balance</b>	
<b>Level and Phase</b>		<b>Result</b>	

### Drawings

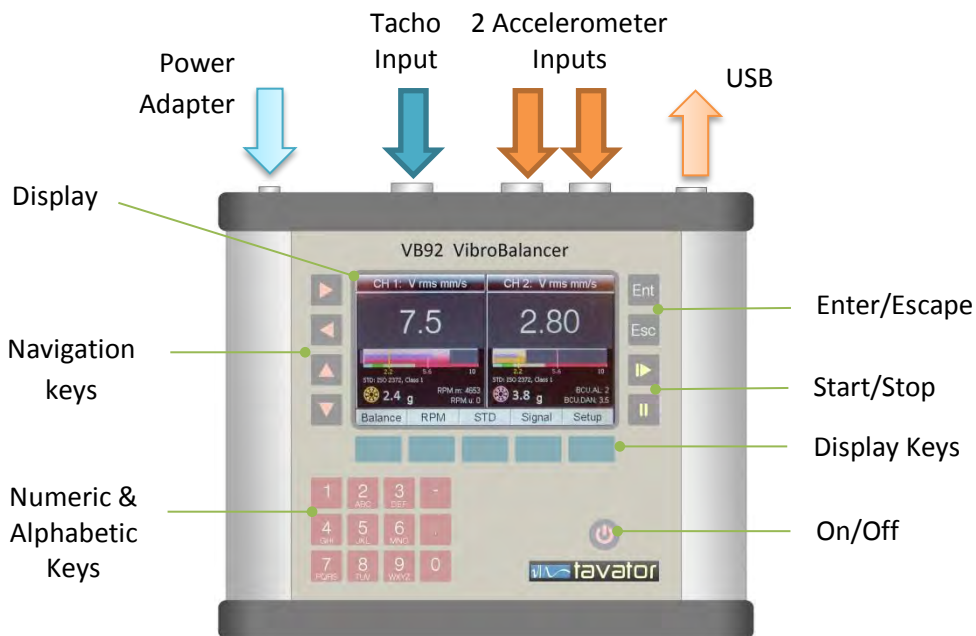


Fig1. VB92 elements

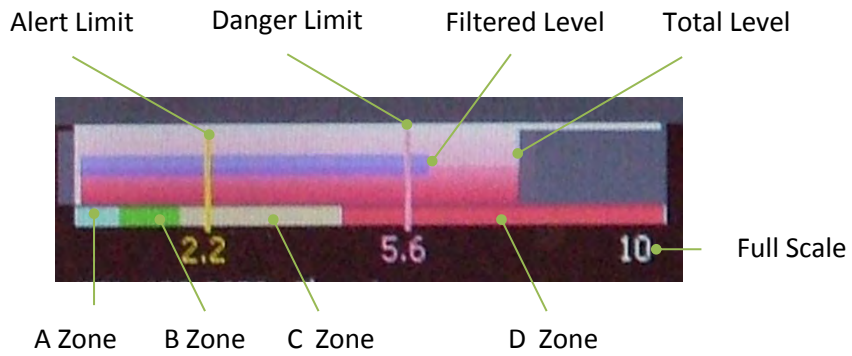
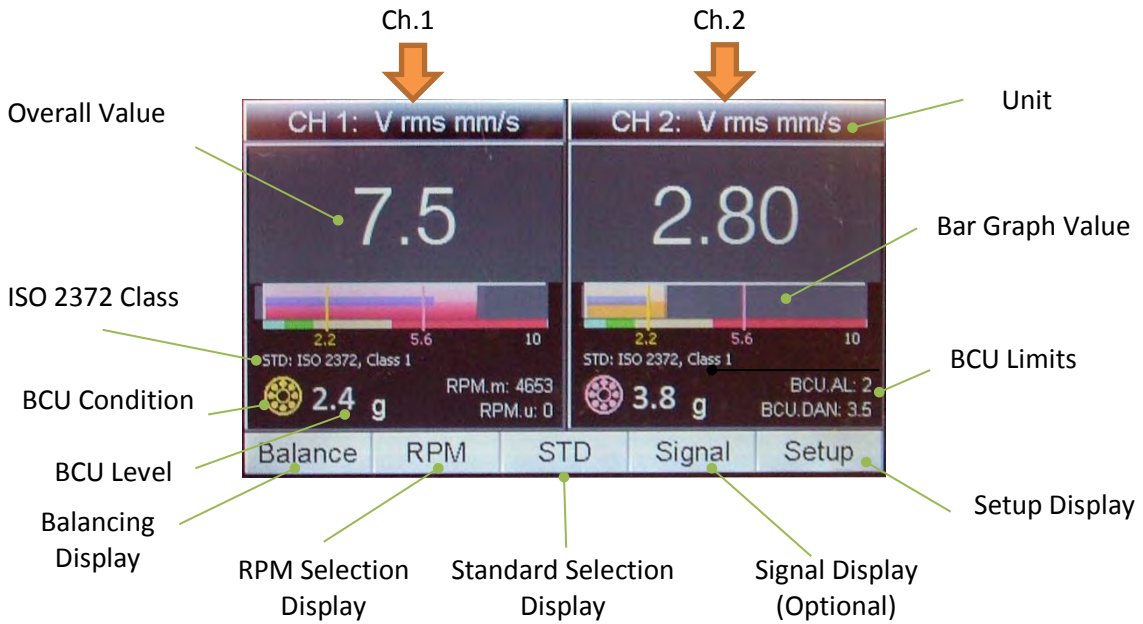


Fig2. Vibrometer elements

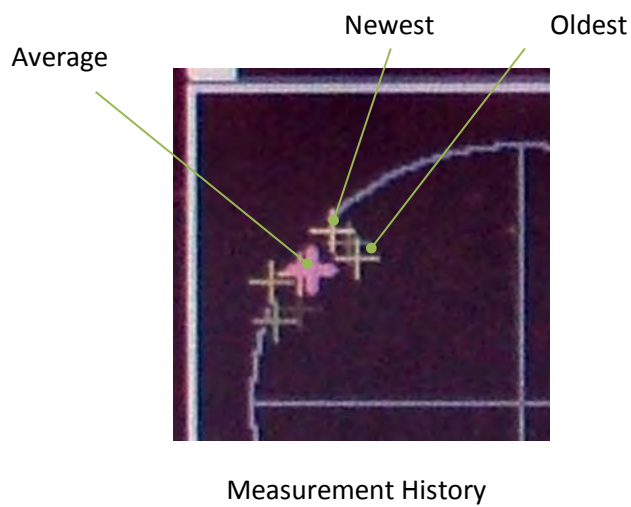
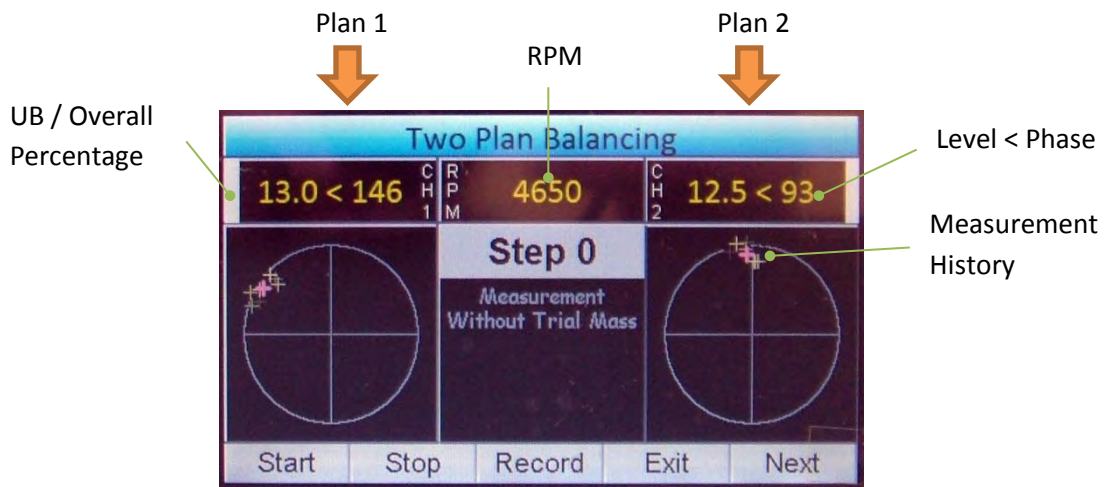


Fig3. Vector measurement elements

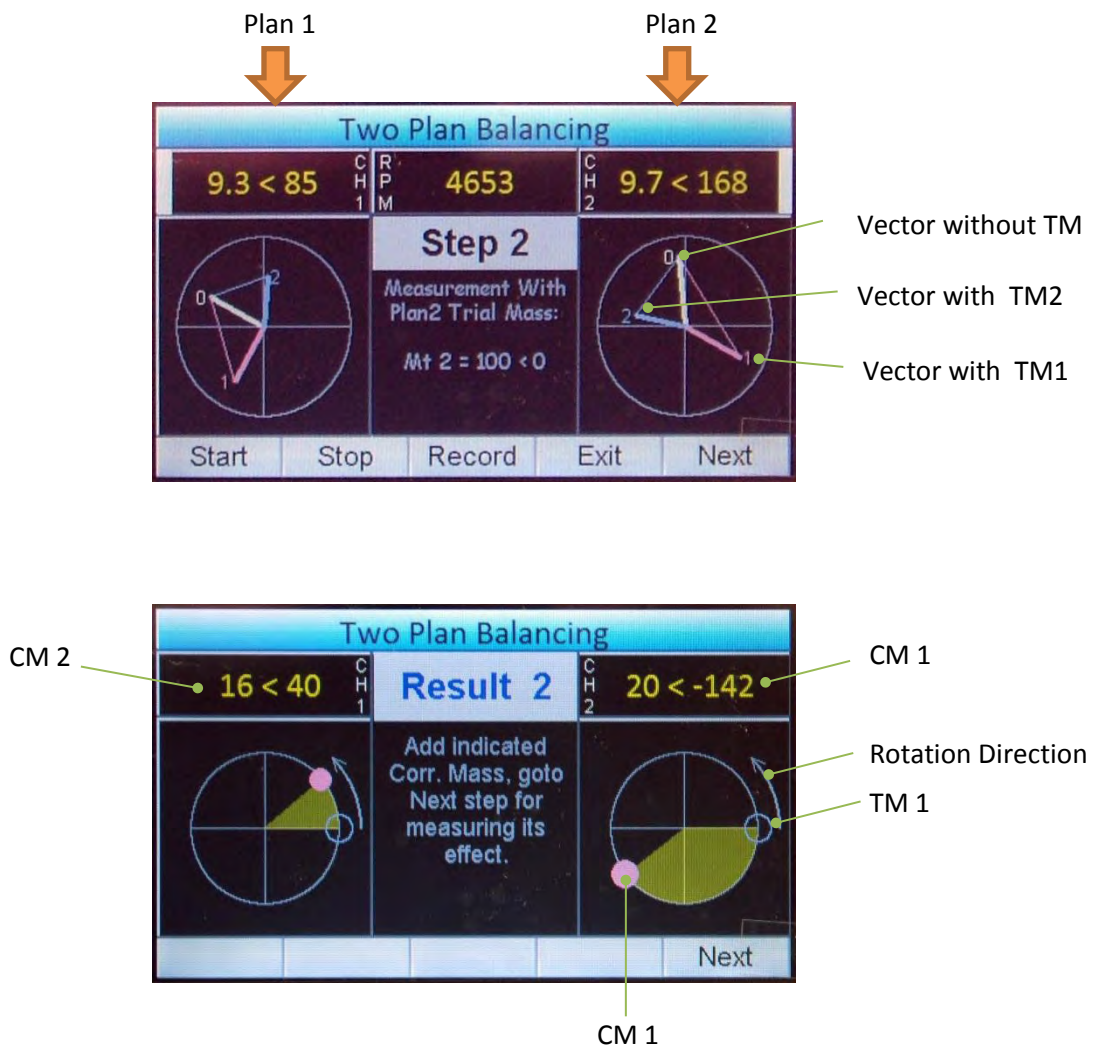


Fig4. Balancer elements

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