

TSC BALCAB 91 – Balancing Module Cabinet

Tavator Sepahan Condition Monitoring Systems

Description

TSC BALCAB 91 is an electronic module for measurement, signal processing, computation and displaying balancing result in a balancing machine. It receive 2 force, displacement, velocity or acceleration transducer channel for imbalance value and one tacho signal for phase reference and speed computation. This module can be used as a replacement of measuring and computation portion of old machine balances in a refurbishment process. Results displayed graphically and can be post processed for any analysis for implying correction masses to rotor. Final balance report can be printed as a balance certification. This module can be used for soft bearing and hard bearing balancing methods.



Uses:

- Any hard bearing and soft bearing balancing machines.
- Refurbishment of old balancing machines.
- Certificate for balancing of rotors in balance shops.

Specifications

Inputs	
Force:	2 Channel for • Any Force Transducers
Vibration:	2 Channel for • Proximity probe transmitter • Velocity pickups • Accelerometers
Phase Ref & Speed:	• Tachometer • Photoelectric probe • Proximity probe
Speed Range:	• 60 ~ 20000 RPM
Signal Processing	
Inputs:	• 2 Dynamic Signal • 1 Tacho
Filter:	Tracking Filter
LED Indicator:	• Overload • Tacho
Output:	• RS232
Gain:	• Auto Scale
Power:	• 110~220 V AC
Computer	
Computer:	• 12.1" XGA HMI Touch Panel Computer with Onboard Intel® Atom™ D510 1.66 GHz Processor
Parameters:	• Large font digital (level) • bar graph (level, AI, Dan) • Machine, Point, FS Value

System Memory:	• DDR2 SODIMM, Up to 2 GB	I/O Port:	• USB2.0 x 4, RS-232 x 1, RS-232/422/485 x 1, LAN x 2, VGA x 1
Storage Disk Drive:	• 2.5" SATA Hard Disk Driver /CompactFlash™ Slot (Internal)	Construction:	• IP-65 certified Plastic front panel, Plastic back panel
Dimension:	• 12.5"(W) x 9.6"(H) x 2.5"(D)(317mm x 243mm x 64mm)	Operating Temperature:	• 32°F ~ 122°F (0°C ~ 50 °C) (Ambient with airflow)
Display Type: Max Resolution: Max. Colors:	• 12.1" TFT-LCD • 1024 x 768 • 16.2M colors	Touchscreen: Resolution: Life time:	• 5-wire, Analog Resistive • 2048 x 2048 • 35 Million activations

Keyboard, Mouse and Printer

Type:	• Nputel Technology, Vandal-proof Stainless steel keyboard with trackball, Model No. KB205 • Dustproof, Water proof, Vandalism resistance	Dimensions: No. of keys: keyswitch lifetime: Printer:	• 478mm x 135mm (front panel) • 106 keys, high quality stainless steel • > 5 million of operations. • Inkjet Color Printer
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Physical

Dimension:	500 x 400 x 500 mm	Weight:	17 Kg
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Environmental Limits

Operating Temperature:	-5°C to +55°C	Storage Temperature:	-40°C to +75°C
Operating Humidity:	5% to 95% Non-condensing relative humidity	Storage Humidity:	5% to 95% Non-condensing relative humidity
IP:	IP 65		

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