



# PY-3BR On-Line Balancer

Abnormal Damage Detection



- Full function meter : dynamic balance 、 speed 、 vibration
- Online measure vibration, when the accuracy is out of limited value. Balancer will send out an alarm signal to control system
- Free setting 3 alarms for vibrate accuracy, and 2 alarms including warning output
- Full colors of touch screen with teach-operating mode
- Automatically store the last balance record, quickly complete the dynamic balance correction for the grinding wheel or rotor
- Real-time display : speed, vibration, unbalanced position
- USB card storage

## Function & Specification:

Conditions	Specification
Measuring Range @3,600 rpm	0.001~20 G
	0.01~520 mm/s
	0.01~2,760 $\mu$ m
Measurement accuracy @3,600 rpm	0.001 G
	0.01 mm/s
	0.01 $\mu$ m
Phase Resolution	0.1°
RPM Range	400~20,000 rpm
Vibration Unit	Acceleration(G : 0-P)
	Velocity(mm/s : 0-P)
	Displacement( $\mu$ m : P-P)
RPM Sensor	Magnetic induction
Sensing Range	5mm
Vibration Sensor	100 mV/g
CPU	32bits
Display	800 X 480 Full-color
	Touch Screen LCD
Working Temperatue	0°C ~ 50°C
Power Consumption	3.5 W
Power	DC 24V / 1A
Size	160 x 107 x 60 (mm)
Weight	About 900 g
Storage Interface	USB Card



## Accessories:

- Device host \*1 (Include rubber seal)
- Data storage card \*1 (Pre-built on device host)
- Fixed plate \*1 (including 2 butterfly nuts)
- Vibration sensor \*1 (accelerometer)
- ※ Standard: M6 fixing bolt  
/ Optional: Magnetic base
- Vibration cable \*1 (outlet cable 7M )
- M12 speed sensor \*1 (outlet cable 7M )
- Fixed base speed sensor \*1 (outlet cable 7M )
- ※Standard: M12 speed sensor  
/ Optional: Fixed base Speed Sensor
- Pay extra fee to request a special length
- Instruction manual \*1 (USB flash drive included)



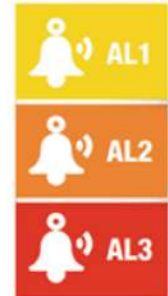
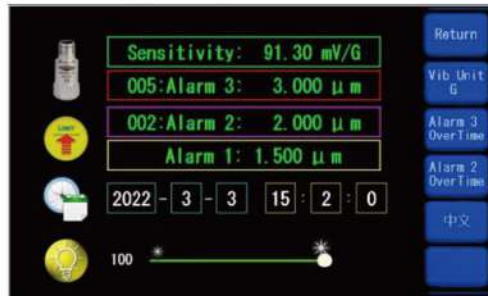
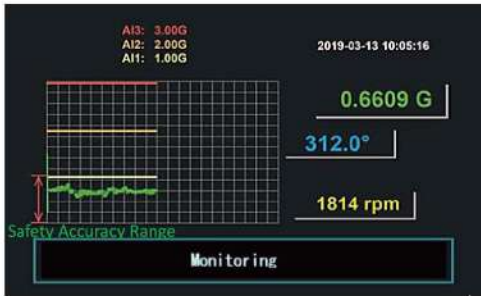
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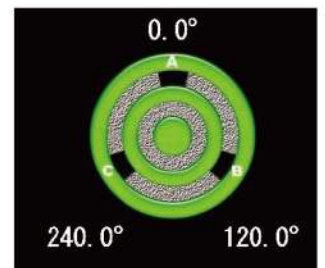
PY-3BR will enter On-Line full-time condition monitoring when device host is power on, which can effectively improve the machining accuracy and maintain the machining performance of precision machines. It can provide 3 sets of vibration accuracy allowable value settings and exceed the standard records, and can issue 2 sets of active safety alarms that exceed the standard; Ensure that the machine is maintained in the most suitable state for precision machining at all times.



Directly interpret the speed/unbalance angle/unbalance amount of the high-speed rotor online, with 3 sliders balancing mechanisms (note: Some kind of designs have patent protection) or tool holders with balance holes (or grinding wheel flange/tool holder/hydraulic chuck /high-speed rotary table) For the entire rotor system, the dynamic balance accuracy correction is performed directly on line, and the excellent dynamic accuracy can be mastered!



### 3 Balancing methods



Save the calibration time from off-line balance, and easily maintain the overall dynamic accuracy of the spindle/grinding wheel/tool holder/tool/chuck/workpiece better than 1 μm.

