
Chapter 17

Specifications

Model 2015 ProBalancer

(Revision 2, April 2005)

ACCURACY	
Vibration Amplitude	+/-5%, 0-10 IPS
Frequency Range	0 -10K Hz
Tachometer Inputs	+/- .3%, 100-10,000 RPM
POWER SUPPLY	
Type	Camcorder-Type Battery, Model RB 85 or equivalent (12 V, 2.3 Amp hour internal lead acid battery.)
Operation Time	8 -10 hours approximately
Voltage	12 V DC Battery or 14-28 V DC ships power
Charging Time	2 hours
PHYSICAL	Height 9.3" Width 7.5" Depth 4.4" Weight 4.5 lbs.
AC INPUT	The data acquisition system is capable of measuring AC values from 0.1 volts to 2.048 volts peak.
UNCONDITIONED TACHOMETER INPUT	Tachometer signal processing electronics are capable of adjusting the full-scale input range to handle any available sensor for measuring speed. Adjustment of the tachometer conditioning electronics is performed automatically by the microprocessor and requires no user intervention. The voltage level used as a reference for detection of the start of the revolution can be adjusted from 120mV to 5 volts. The tachometer circuitry can detect speeds up to 10,000 RPM.
SENSOR TYPES	The analyzer will accept acceleration and velocity vibration signal input from 991D-1, 991V, and 7310 sensors. The input is then integrated or displayed as IPS (inches per second) for balance or integrated to any other vibration unit.
ANALYSIS RANGE	A high roll-off, 8-pole elliptical, anti-aliasing filter is used with a Fast Fourier Transform (FFT) to accurately transform data from the time to the frequency domain. The analyzer will perform FFT resolutions of 100,200,400, and 800 lines.