Model 246

Portable Balancing Instrument



FOR IN-SITU BALANCING & FOR USE WITH ALL TYPES OF BALANCING MACHINES

DESCRIPTION:

The Model 246 is a portable, easy to use microprocessor-based Balancing Instrument, with unmatched performance when balancing all types of rotors 'In Situ' and on Soft and/or Hard Bearing balancing machines. In addition, the 246 can be used for replacing outdated instruments to improve the performance of older balancing machines. Anyone can use the 246 to balance rotors with only very basic training. Once the instrument is calibrated, the operator simply needs to spin the rotor and read the unbalance corrections on the LCD display screen. The small size and light weight of the model 246 makes it very easy to hand carry to the job site. The built-in printer also provides hard copy reports of the before and after balancing results.

GENERAL SPECIFICATIONS:

- Balancing Speed Range: 60 to 80,000 RPM
- Amount Readout: Auto-Ranges between 0.001 to 5,000 micrometers p-p (0.0001 to 199 mils) or 0.0001 to 228 mm/sec pk (0.0001 to 9 in/sec)
- Filter: Dual, narrow band shaftsynchronous digital tracking filters, with averaging
- Number of Balance Planes: 1 or 2
- Calibration Methods: Trial Weights or Permanent (Hard Bearing machines only)
- Display: Dual Channel, backlit supertwist alphanumeric LCD with 2 lines x 40 characters per line



- Numeric keypad with 6 Function keys for data entry
- Unbalance Readout: g mm, g in, oz in, grams or ounces
- Vibration Readout: micrometers, mils, millimeters/second or inches/second
- Display of Dynamic (Left/Right) Unbalance or Static/Couple Unbalance
- Display of correction angles for adding or removing rotor balance weights
- Unbalance Display in Digital Format
- Rotor Memory storage for up to 50 different rotors internally
- Automatic Vector Splitting of unbalance corrections
- Vector Addition of unbalance corrections for combining weights
- Electronic Compensation for tooling errors caused by cardan shafts or adapters
- Electronic Compensation for keys and keyways

- Customized Headings on Balance Reports (with external computer)
- Built in thermal printer: 80 mm (3.15 inch) wide continuous paper
- Serial RS232 interface to send balance data to an external computer
- Standard Accessories: (2) Velocity sensors, photocell reference sensor and cables
- Briefcase configuration:
 - -415 x 300 x 125 mm (LengthxWidthxHeight)
 - -Weight: 6kg (13lb) (no accessories)
 - -Power Supply: 115/230VAC
- Switch Selectable Language Options:
 English, German, French, Italian and Spanish
- Angle encoder input for the display of the unbalance position (requires 1024 ppr external encoder, not included)

OPTIONAL FEATURES:

- Printer: Full size printer
- External DC battery pack

STANDARD CONFIGURATIONS:		
246 Package	Brief Description	Detailed Description
E00312	Instrument only	Model 246 for applications where all accessories (vibration sensors, photocells, mounting brackets and cables) are already available. This package includes the 246 instrument, power cable, operation manual, 2 rolls of printer paper and PC communications disk.
E00310	Instrument and Accessories for Soft Bearing Balancing Machines (B5-B200)	Model 246 for new or existing Soft Bearing Balancing Machines. Accessories, in addition to those included in the E00312 Package, include two 546DP (direct prod) sensors, photocell, photocell reflective tape, photocell mounting asm. and all cables.
E00311	Field Balancing Package (544)	Model 246 with two 544 seismic high output self generating vibration sensors for Field Balancing. Accessories, in addition to those included in the E00312 Package, include photocell, photocell reflective tape, magnetic flexible arm holder for photocell, magnetic holders for the 544s, accessory case and all cables.
E00317	Field Balancing Package (9100V0)	Model 246 with two small 9100VOHO2 piezo-velocity seismic high output vibration sensors for Field Balancing. Accessories, in addition to those included in the E00312 Package, include photocell, photocell reflective tape, magnetic flexible arm holder for photocell, magnetic holders for the 9100s, power unit for 9100, all cables and accessory case. Optional AC line adapters are available for 9100 power unit.
E44818	High Output Piezo-Velocity Sensor kit	Kit of two small 9100V0H02 sensors (1080mv/in/sec), two magnetic holders for the 9100s, a battery operated power unit and all interconnect cables for use with existing Model 246 instruments. These are the sensors used in the E00317 Package. Useful for applications where a smaller sensor size is desired. Optional AC line adapters are available for 9100 power unit.

	Options, Accessories, and Supplies
E71270	Printer paper, qty. 1 roll (70m/230ft per roll)
E35770	Printer paper, qty. 5 rolls (70m/230ft per roll)
E72658	PC communications software diskette (3-1/2")
E19643	AC Power Supply Cable with US plug, 120VAC, 3 m
E41874	AC Power Supply Cable with UK plug
E41554	AC Power Supply Cable with European plug
E27100	246 External Battery pack (12 volt) with charger & cable
E26391	Cigarette lighter adapter (12volt DC) with 3m/10' cable
E70057	Operation manual for 246 Balancing Instrument-English
E70072	Operation manual for 246 Balancing Instrument-French
E70074	Operation manual for 246 Balancing Instrument-Spanish
E02785	546DP Vibration sensor only
E11194	546DP Vib. sensor with mag. tip, mtg. bracket and hardware
E10170	Magnetic tip for use with 546DP vibration sensor
E04690	Cable for use with 544/546DP vibration sensor,7.6m/25'
E04691	Cable for use with 544/546DP vibration sensor, 15m/50'
E04526	544 Velocity Vibration sensor for field balancing
E04332	Magnetic holder for use with 544 vibration sensor
E44445	Compact vibration sensor 9100V0-H02, 25mm/1" dia.
E41529	Magnetic holder for 9100V0 sensor,38mm/1.5" diameter
E44339	Power unit for 9100V0 sensor (with batteries)
E44340	Line adapter, 110VAC, for 9100V0 sensor power unit, E44339

E44343	Line adapter, 220VAC, for 9100V0 sensor power unit, E44339
E37385	Cable for 9100V0 sensor to P/N E44339 power unit, 7.6m/25'
E37388	Extension cable, BNC/BNC M/F for E37385 sensor, 7.6m/25'
E44341	Cable for power unit, E44339, to balancing instrument, .9m/3'
E21000	Photoelectric speed sensor, standard, reflective tape trigger,
	25-610 mm range
E21200	Reflective tape for use with speed sensor, 47.5m/150'
E10179	Cable for P/N E21000 photoelectric speed sensor, 7.6m/25'
E47240	Laser speed sensor, 5Vdc, reflective tape trigger,100-2000mm
E47246	Cable for laser sensor to 236,246,290, 10m/32.8'
E39066	Connector adapter, BNC to 4-pin reference input for
	236/246/290 (Required for strobe kit)
E39581	Strobe light kit for 120VAC
E39582	Strobe light kit for 240VAC
E47164	Printer, 9 Pin Dot Matrix, continuous paper, 120VAC 50/60Hz
E43497	Printer cable, 1.8m/6'
E47163	Cut sheet paper feeder for printer P/N E47164
E26383	Magnetic flex arm holder for speed sensor
E11820	Balancing wax, sold by the pound
E32147	Epoxy balancing weight compound, 2 lb package
E04753	Balancing weights, set of 16, Cshaped with set screw
E11946	Balancing clips for squirrel cage fans (7 sizes of 100 ea)

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