Model Number K394B30

## CALIBRATION SHAKER SYSTEM - AIR BEARING SHAKER

Revision: D ECN#:

PERFORMANCE Stroke Frequency Range, frequency response testing Frequency Range, resonant search testing Acceleration Level (sinusoidal) Continuous (25 to 10000 Hz) Intermittent (35 to 10000 Hz) Maximum Payload Lifting Spring Air Supply Specifications	English 0.4 in pk-pk 2 to 15000 Hz Up to 50 kHz  8.5 g pk 40 g pk 17.6 oz Lorentz – force coil	\$\frac{SI}{10 \text{ mm pk-pk}}\$ 2 to 15000 Hz Up to 50 kHz  83 m/s <sup>2</sup> pk 392 m/s <sup>2</sup> pk 500 gm Lorentz – force coil	[1]	System Components 396C10: Air bearing shaker 080A200: Beryllium insert (1/4-28 mount) with internal reference accelerometer [2] 482A21: ICP® sensor signal conditioner 2100E21-C: SmartAmp™ AC power amplifier with integrated DC supply and air regulator 003C10: Reference accelerometer sensor cable 012A03: Signal conditioner output cable 012A01 (Qty 2): Shaker cable
Pressure Recommended flow supply to regulator Air-bearing flow rate (typical) ISO 8573.1 Quality Armature Insert Total mass Sensor mounting thread size Transverse Motion <921 Hz <10000 Hz <15000 Hz Shaker Dimensions Shaker Weight	30 to 60 psi 1.5 ft³/min 0.15-0.20 ft³/min Class 3 Aluminum Beryllium 2.2 oz ½-28 UNF  5% 10% 30% 6.5 x 5.25 inch 22.3 lbs	2 to 4 bar 0.7 L/s 0.07-0.09 L/s Class 3 Aluminum Beryllium 62 gm 1/4-28 UNF 5% 10% 30% 165 x 133 mm 10.1 kg	[2] [3] [4] [4]	Included Accessories  Air filter assembly, includes filter and appropriate couplings  Sensor mounting adapter kit, includes typical mounting adaptor studs and plates  Primary calibration of internal reference accelerometer via laser interferometer for ultra low uncertainty of 0.2% at 100 Hz and 159 Hz  Rack mount brackets for 2100E21 SmartAmp  Power cables  Spare fuses
ELECTRICAL Drive-Coil Resistance Lorentz-Coil Resistance  INTERNAL REFERENCE ACCELEROMETER Type Sensitivity Frequency Range (+/- 3dB) Resonant Frequency  POWER AMPLIFIER Output Voltage, max Current Limit Output Power DC Current Supply  All specifications are at room	1.0 Ohm (nominal) 2.8 Ohm (nominal)  Quartz Shear ICP® 10 mV/g 0.35 to 30000 Hz >70 kHz  38 V rms 18 A peak 400 W 1.75 Amp	1.0 Ohm (nominal) 2.8 Ohm (nominal)  Quartz Shear ICP® 1.02 mV/m/s² 0.35 to 30000 Hz >70 kHz  38 V rms 18 A peak 400 W 1.75 Amp	[5] [6] [7]	NOTES [1] DC coil payload limit. See manual for dynamic frequency response limits. [2] $080A200$ is standard armature insert supplied. Other units available include $080A199$ ( $10-32$ thread), $080A205$ ( $M6 \times 0.75 - 6H$ thread), and $080A206$ ( $M8 \times 1.0 - 6H$ thread). [3] Typical, tested to ISO $16063-21:2003$ recommendations [4] These are typical values. TMS performs $100\%$ acceptance testing to the suggested specifications of ISO $16063-21-2003$ . [5] At 4 $\Omega$ load impedance, 1 kHz, THD $0.1\%$ . [6] Typical, over-current protection limited [7] At 4 $\Omega$ load impedance, 1 kHz, THD $0.6\%$ .
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In the interest of constant product improvement, specifications may change without notice.				Date: 9/23/21 Date: 9/23/21 Date: 9 23/21



10310 Aerohub Boulevard Cincinnati, OH 45215

800-860-4867 513-351-9919 Fax (513) 458-2172

info@modalshop.com SAM-F020 revNR 04/04/03