

PB1500

specifications



utilities	<p><i>AC Input Power:</i> 115 VAC 50/60 Hz, Single Phase @ 15A service or 230 VAC 50/60 Hz, Single Phase @ 15A</p> <p><i>AC Fuse:</i> 10A @ 115 VAC; 5A @ 240 VAC</p> <p><i>Vacuum Supply:</i> Input: $\geq 25"$ of Mercury</p> <p><i>Requirements:</i> Consumption: 3 SCFM</p>
mechanical specifications	<p><i>Physical Dimensions:</i> Height: 62" (157.5 cm) (includes bench & monitor) Width: 45" (114 cm) Depth: 43" (109 cm) Weight: 450 lbs. (205 kg) Tie Down: Earthquake Tie Down Provided Portability: Bench-top Configuration</p> <p><i>Measurement Area / Stage:</i> Maximum Probe Array: 3" x 3" Flatness: $\leq 0.0005"$ TIR Raised Isolation Pin: 3 mil Std. (1-5 mil optional) Customer Changeable Gram Force Measurement: Optional Gram Force Pin: 3 mil Std. (1-5 mil optional) Customer Changeable Stage: X, Y Ball Screw Drive Max Total Probe Tip Force: 50 lb (22.7 kg) Travel: X = 6" (15.2 cm), Y = 6" (15.2 cm), Z = 0.5" (1.3 cm)</p> <p><i>Test Channel Multiplexer:</i> Type: Solid State, Cableless Size/Modularity: Up to 1280 Channels in 128 Channel Increments Each channel also capable of relay control</p> <p><i>Probe Card Interface:</i> Accommodates: Various ITC Motherboards & Edge Connector Cards Mounting: Vacuum Attachment</p> <p><i>Video System:</i> Alignment Resolution: 0.5 micron Type: B/W No. of Probes / Capture: 1 - Single Pin, 4-12 - Multi-Pin Capture (Pitch Dependent) Min. Probe Size: 0.2 mil Max. Probe Size: 10 mil Binocular Microscope: Leica MZ12.5, standard (other types optional)</p>
pc computer	<p><i>Standard Hardware:</i> Processor: Pentium 4, ≥ 2.0 GHz Industrial Computer Operating System: Windows 2000 w/ODBC Database for Programs & Data Hard Drive: ≥ 60 Gb Memory: ≥ 512 MB PC 100 Peripherals: 3.5" Floppy, CD-RW ROM Monitor: High Resolution 15" Color LCD, CE Approved I/O: Ethernet Card, USB (2 Hubs)</p>
measurement system	<p><i>Number of Channels:</i> Standard: 128 Optional: Up to 1,280 Maximum Signal Pins: 1,280 Maximum Total Pins: 5,000</p> <p><i>Compliance Voltage:</i> DC Test Software Adjustable from 3 to 10 Volts DC</p> <p><i>Components:</i> Resistors: Serial & Parallel Capacitors: Parallel</p>
environmental requirements	<p><i>Ambient Temperature:</i> Operating: 68°F +10°F/-5°F (20°C +6°C/-3°C) Highest Accuracy & Repeatability: 68°F \pm 2°F (20°C \pm 1°C) Storage: 20°F - 102°F (-6°C - 39°C)</p> <p><i>Cleanliness:</i> Recommended: Class 10,000 (or better) Clean Room</p> <p><i>Humidity: (Non-condensing)</i> Operating: 0% - 70% RH Storage: 0% - 80% RH</p>
motherboards	<p><i>Weight:</i> Motherboard: Approx. 15 lb. (6.8 kg) Retainer: Approx. 10 lb. (4.5 kg) Max. Probe Card Dia.: 17" (43.2 cm) Edge Cards: 4" to 8" (10 to 20 cm) Tools Req'd to Change Card: None (for most probe card styles) Calibration: Adjustable Planarity to 0.1 mil (2.54 microns)</p>
general	<p><i>Compliance Standards:</i> Semi S2-93 & S2-93A Safety Guidelines: Standard Semi S8-95 Ergo Guidelines: Standard CE Mark: Standard Other Standards: ANSI/RIA R15.06-1992 (Robotic Safety), NIST Q, ASTM 5, FCC 47, EMC Directive 89/336/EEC, EN 50082-1:1992 (ESD), EN 55022:1988 (Emissions), EN 60555-2:1992 (Harmonics), EN 61000-3-3:1996 (Flicker) NIST Traceability: Standard</p>

Note: Specifications are subject to change without notice.

F.S. = Full Scale of the Given Range

RDG = % of Reading

spec sheet

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accuracy specification	electrical measurements	Test	Range	Forcing	Compliance	Resolution	Accuracy (±)
		Resistance	0 - 1Ω	7 mA	10V	0.00004Ω	1% F.S. + 0.001Ω
			0 - 10Ω	7 mA	10V	0.0004Ω	1% F.S. + 0.010Ω
			0 - 100Ω	7 mA	10V	0.004Ω	1% F.S. + 0.100Ω
			0 - 1kΩ	7 mA	10V	0.04Ω	1% F.S. + 1.000Ω
			0 - 10kΩ	0.9 mA	10V	0.347Ω	1% F.S. + 10.00Ω
			0 - 100kΩ	10V	1mA	3.125Ω	1% F.S. + 100.0Ω
			0 - 1MΩ	10V	10μA	31.25Ω	1% F.S. + 1kΩ
			0 - 10MΩ	10V	10μA	312.5kΩ	1% F.S. + 10kΩ
			0 - 100MΩ	10V	10μA	3125kΩ	1% F.S. + 100kΩ
			Leakage	0 - 1μA	10V	10μA	30pA
		0 - 10μA		10V	10μA	300 pA	0.5% RDG + 0.010μA
		0 - 100μA		10V	10μA	3,000 pA	0.5% RDG + 0.10μA
		0 - 1000μA		10V	10μA	30,000 pA	0.5% RDG + 1.0μA
		Capacitance	10nF	100μA	10V	10pF	1% F.S. + 10pF
			100nF	100μA	10V	100pF	1% F.S. + 100pF
1μF	1 mA		10V	1nF	1% F.S. + 1nF		
10μF	1 mA		10V	10nF	1% F.S. + 10nF		
100μF	10 mA		10V	100nF	1% F.S. + 100nF		
1,000μF	10 mA		10V	1μF	1% F.S. + 1μF		
10,000μF	10 mA		10V	10μF	1% F.S. + 10μF		
accuracy specification	physical measurements	Test	Travel	Load	Resolution	Accuracy (±)	Repeatability (±) 3σ
		Planarity	0.5" (Z)	50 lbs.	0.1 micron	3.0 micron (0.12 mils)	2.0 micron (0.08 mil)
		Alignment	6" x 6" (X x Y)	50 lbs.	0.1 micron	3.0 micron (0.12 mils)	2.0 micron (0.08 mil)
		Gram Force	Range	Compliance	Resolution	Accuracy (±)	Repeatability (±) 3σ
			0 - 30 gram	30 gram	0.1 gram	1% F.S. + 0.1 gram	0.15 grams
	0 - 60 gram	60 gram	0.2 gram	1% F.S. + 0.2 gram	0.30 grams		

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