

PB3600

specifications



utilities	AC Input Power: 90 to 240 Vac 50/60 Hz, Single Phase @ 15A service AC Fuse: 15A @ 115 VAC; 7.5A @ 240 VAC Vacuum Supply: Input: $\geq 25"$ of Mercury Requirements: Consumption: 3 SCFM Air Pressure: None Required
mechanical specifications	Physical Dimensions: Height: 54" (137 cm) Width: 63" (160 cm) Depth: 43" (109 cm) Weight: 759 lbs. (344 kg) Tie Down: Earthquake Tie Down Provided Portability: 12 Rolling Casters & 8 Heavy-Duty Rubber Feet Provided Wafer / Measurement Stage: Diameter: 11" X 9.5" Semi-Round Flatness: 0.0002" TIR Planarity Test Area: 12" x 8" Raised Isolation Pin: 2.5 mil Std. (1-5 mil optional) Customer Changeable Flush Isolation Pin: 2 mil and 4mil Std. (1-5 mil optional) No. of Isolation Pins / Chuck: 4 Different Size or Type Isolation Pins at the Same Time Gram Force Pin: 2.5 mil Std. (1-5 mil optional) Customer Changeable Max Total Probe Tip Force: 220 lb. (100 kg) Travel: X = 12" (30.5 cm), Y = 8" (20.3 cm), Z = 0.75" (1.9 cm) Test Channel Multiplexer: Type: Solid State, Kelvin Connections, Cableless, RID MUX Size/Modularity: Up to 3072 Channels in 64 Channel Increments Each channel can be software selected to be either a test channel or relay drive channel with 1-12 volts programmable power supply. Hinged Probe Card Adapter: Accommodates: Various ITC Motherboards & Flipping of Probe Card for Repair Operation: Motorized Elevator Video System: Alignment Resolution: 0.1 micron Type: Gig-E Optics No. of Probes / Capture: 1 - 100 (Dependent on Capture Method selected) Min. Probe Size: 0.2 mil Max. Probe Size: 20 mils Upper Video: Live Upper Video Standard
pc computer	Standard Hardware: Processor: I7 Processor, ≥ 3.0 GHz Industrial Computer Operating System: Windows 10 Pro w/ODBC Database for Programs & Data Hard Drive: ≥ 500 Gb Memory: 4GB RAM Peripherals: DVD-RW ROM Monitor: Dual High Resolution 22" Color LED, CE Approved I/O: Ethernet Card, I Serial Port, 1 Parallel Port, & 5 USB Ports
measurement system	Number of Channels: Standard: 1536 (4-Wire Kelvin Measurement) Optional: Up to 3,072 Maximum Signal Pins: 3,072 Maximum Total Pins: 10,000 Compliance Voltage: DC Test Software Adjustable from 3 to 10 Volts DC Components: Resistors: Serial & Parallel Capacitors: Parallel
environmental requirements	Ambient Temperature: 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) Cleanliness: Recommended: Class 10,000 (or better) Clean Room Humidity: Operating: 0% - 70% RH (Non-condensing) Storage: 0% - 80% RH
motherboards	Weight: Motherboard: Approx. 25 lb. (11.4 kg) Retainer: Approx. 17 lb. (7.7 kg) Max. Probe Card Dia.: 19" (45.7 cm) Edge Cards: 4" to 8" (10 to 20 cm) Tools Req'd to Change Card: None Coupling: Repeatable Kinematic Coupling Calibration: Adjustable Planarity to 0.1 mil (2.54 microns)

Note: Specifications are subject to change without notice.

F.S. = Full Scale of the Given Range

RDG = % of Reading

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general	Compliance Standards: Semi S2-93 & S2-93A Safety Guidelines: Semi S8-95 Ergo Guidelines: 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: Optional					
accuracy specification	Test	Range	Forcing	Compliance	Resolution	Accuracy (±)
	Resistance	0 - 1Ω	7 mA	10V	0.00004Ω	1% F.S. + 0.001Ω
electrical measurements		0 - 10Ω	7 mA	10V	0.0004Ω	1% F.S. + 0.010Ω
		0 - 100Ω	7 mA	10V	0.004Ω	0.5% F.S. + 0.100Ω
		0 - 1kΩ	7 mA	10V	0.04Ω	0.5% F.S. + 1.000Ω
		0 - 10kΩ	0.9 mA	10V	0.347Ω	0.5% F.S. + 10.00Ω
		0 - 100kΩ	10V	1mA	3.125Ω	0.5% F.S. + 100.0Ω
		0 - 1MΩ	10V	10μA	31.25Ω	0.5% 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	0.1% RDG + 0.001μA
		0 - 10μA	10V	10μA	300 pA	0.1% RDG + 0.010μA
		0 - 100μA	10V	10μA	3,000 pA	0.1% RDG + 0.10μA
		0 - 1000μA	10V	10μA	30,000 pA	0.1% 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
		> 10,000μF	Contact Factory for Specifications			
accuracy specification	Test	Travel	Load	Resolution	Accuracy (±)	Repeatability (±) 3σ
	Planarity	0.75" (Z)	100 lbs.	0.1 micron	2.0 micron (0.08 mils)	1.0 micron (0.04 mil)
physical measurements	Alignment	12" x 8" (X x Y)	100 lbs.	0.1 micron	2.0 micron (0.08 mils)	1.0 micron (0.04 mil)
		Range	Compliance	Resolution	Accuracy (±)	Repeatability (±) 3σ
	Gram Force	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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