

Curve Master^m



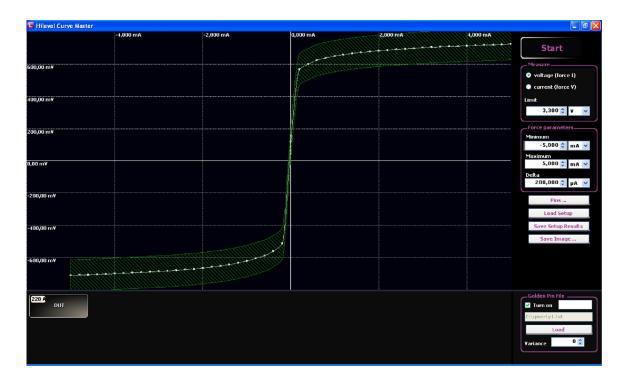
CurveMaster XL

Precision Curve Tracer

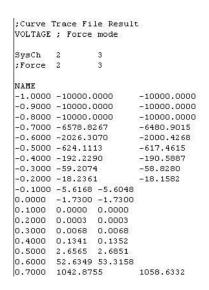
The *HILEVEL* CurveMaster[™] brings modern technology and components to the world of curve tracing. Our Windows based software is easy to use and fast to learn. With up to 2,048 pins and all new high-accuracy DC parametrics, the low-cost CurveMaster[™] could become your favorite lab instrument!

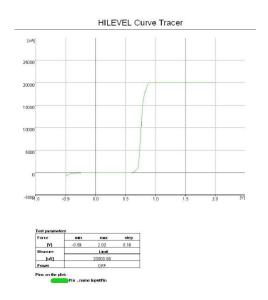
Golden Pin





Golden Pin is a definable % lerance+that can be used to capture the traces of all the pins on a golden (known good) device. The results are saved and used by the software to verify compliance of more devices. Test results can be saved/viewed as a table or graphic image, or both.









High Voltage Testing

The Hilevel CurveMasterTM supports high-voltage devices up to ±120 volts using our DCHiV boards. Each board provides 8 outputs with individual sense and guard signals to allow for low current measurements without introducing any leakage current. These outputs are also accessible from the rear of the chassis using 4 banana jacks for full Kelvin 4-wire measurements. The DCHiV boards can plug into any available slot pair and can be mixed with our standard DC128 resource boards in the same CurveMasterTM chassis.

Specifications

DCHIV PARAMETRIC MEASUREMENTS

One HVSMU switched among 8 outputs on each DCHiV board

Two Force Voltage Ranges: ±120V up to 200mA, ±30V up to 1A, Maximum power 25W

Force Voltage Resolution: 5mV Current Limit Resolution: 50µA

Voltage Measurement Resolution: 15µV

Current Measurement Range: 200nA to 2A Resolution & Accuracy: Range Dependent

Current Ranges	Resolution	Accuracy
± 200 nA	20 fA	\pm 0.4% of Value + 40 pA
$\pm 2 \mu A$	200 fA	\pm 0.3% of Value + 200 pA
± 20 μA	2 pA	$\pm 0.2\%$ of Value + 1 nA
± 200 μA	20 pA	$\pm 0.1\%$ of Value + 10 nA
$\pm 2 \text{ mA}$	200 pA	\pm 0.1% of Value + 100 nA
± 20 mA	2 nA	$\pm 0.1\%$ of Value + 1 μ A
± 200 mA	20 nA	$\pm 0.1\%$ of Value + 10 μ A
± 2 A	200 nA	$\pm 0.1\%$ of Value + 100 μ A
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Specifications

DC128 PARAMETRIC MEASUREMENTS

One DCPMU per 32 pins, four per DC128 Module, plus one main DCPMU

Force Voltage Range: -8V to +8V Voltage Measurement Range: -8V to +8V

Resolution: 1 mV Accuracy: $0.2\% \pm 2 \text{mV}$

Force Current Range: -150 mA to +150 mA Current Measurement Range: $\pm 200 \text{ mA}$ Resolution & Accuracy: Range Dependent Resolution & Accuracy: Range Dependent

Current Ranges	Resolution	Accuracy
± 200 nA	10 pA	\pm 0.4% of Value + 40 pA
$\pm 2 \mu A$	100 pA	$\pm 0.3\%$ of Value $+400$ pA
$\pm 20 \mu\text{A}$	1 nA	\pm 0.2% of Value + 4 nA
$\pm 200 \mu\text{A}$	10 nA	\pm 0.2% of Value + 40 nA
$\pm 2 \text{ mA}$	100 nA	\pm 0.2% of Value + 400 nA
± 20 mA	1 μΑ	$\pm 0.3\%$ of Value + 4 μ A
± 150 mA	10 μΑ	$\pm 0.4\%$ of Value + 40 μ A

CURVE TRACER RANGE, RESOLUTION AND ACCURACY

Same as DC PARAMETRIC MEASUREMENT specifications above.

ENVIRONMENTAL

Power

120VAC single phase, Max 15A

Max Weight

CurveMaster X Max: 49kg (107 lbs) 2048 pins Chassis only: 75 lbs, Each 128 pins: 2 lbs CurveMaster XL: 28kg (61 lbs) 1024 pins Chassis only: 45 lbs, Each 128 pins: 2 lbs

Dimensions (Test head only)

H508mm x W438mm x D438mm (2048 model) H330mm x W438mm x D438mm (1024 model)

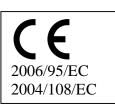
Cooling

9 fans

Temperature

60 to 80 °F (16 to 27°C)

Excellence In Test
Since 1979





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