

Jurve







CurveMaster L

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

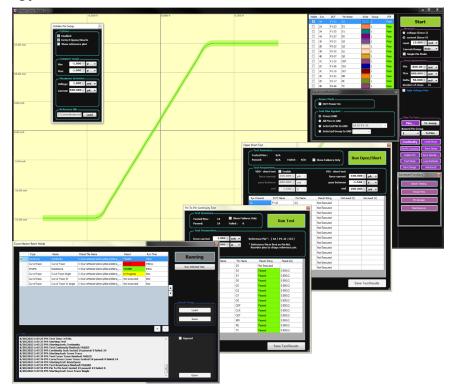


Curve Master

Price and Performance

The CurveMaster[™] brings new price/performance efficiency to curve tracing and Failure Analysis. Curve trace has been a standard feature in our full-power chip tester for years, so the CurveMaster[™] is built with today's components and technology. With all new high-accuracy DC Parametrics, you'll enjoy the most powerful curve tracer you have ever used. Why settle for old used equipment or repackaged old technology?

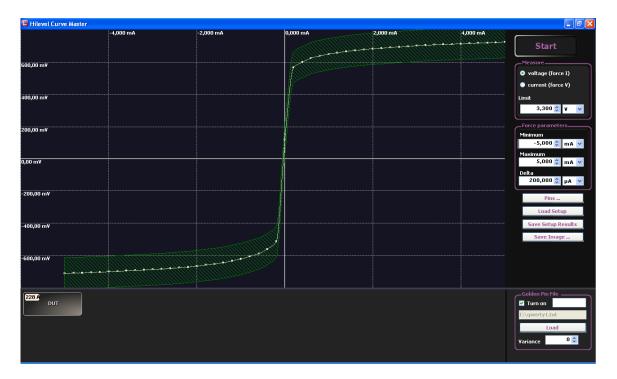




HILEVEL's CurveMaster[™] software is easy to use and setup on the Windows platform, making curve tracing fast and easy.

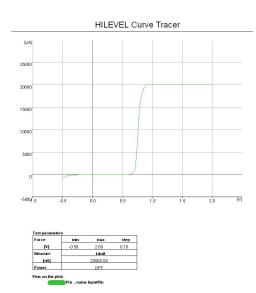






Golden Pin is a definable "tolerance" that can be used to capture the traces of all the pins on a golden (known good) device. The results are saved and used by the software to verify compliance of more devices. Test results can be saved/viewed as a table or graphic image, or both.

;Curve '	Frace Fil	le Result	L.
VOLTAGE	; Force	mode	
SysCh	2	3	
;Force	2	3	
NAME			
-1.0000	-10000.0	0000	-10000.0000
-0.9000	-10000.0	0000	-10000.0000
-0.8000	-10000.0	0000	-10000.0000
-0.7000	-6578.8267		-6480.9015
-0.6000	-2026.3070		-2000.4268
-0.5000	-624.1113		-617.4615
-0.4000	-192.2290		-190.5887
-0.3000	-59.2074		-58.8280
-0.2000	-18.2361		-18.1582
-0.1000	-5.6168	-5.6048	
0.0000	-1.7300	-1.7300	
0.1000	0.0000	0.0000	
0.2000	0.0003	0.0003	
0.3000	0.0068	0.0068	
0.4000	0.1341	0.1352	
0.5000	2.6565	2.6851	
0.6000	52.6349	53.3158	
0.7000	1042.875	55	1058.6332







High Voltage Testing

The Hilevel CurveMaster[™] 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 CurveMaster[™] 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

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
$\pm 20 \mu\text{A}$	2 pA	$\pm 0.2\%$ of Value + 1 nA
$\pm 200 \mu\text{A}$	20 pA	$\pm 0.1\%$ of Value + 10 nA
$\pm 2 \text{ mÅ}$	200 pA	$\pm 0.1\%$ of Value + 100 nA
$\pm 20 \text{ mA}$	2 nA	$\pm 0.1\%$ of Value + 1 μ A
± 200 mA	20 nA	$\pm 0.1\%$ of Value + 10 μ A
$\pm 2 \text{ A}$	200 nA	$\pm 0.1\%$ of Value + 100 μ A



Specifications

DC128 PARAMETRIC MEASUREMENTS

Four SMU per 128 pins, FET relay matrix 128x4, modes: FVMI, FIMV, FNMVForce Voltage Range: -8V to +8VVoltage Measurement Range: -8V to +8VResolution: $125\mu V$ Resolution: $1.25\mu V$ Accuracy: $0.02\% \pm 200\mu V$

Force Current Range: -200 mA to +200 mA Resolution & Accuracy: Range Dependent

Accuracy: $0.02\% \pm 200\mu V$ Current Measurement Range: $\pm 200 \text{ mA}$ Resolution & Accuracy: Range Dependent

Current Ranges	Resolution	Accuracy
$\pm 20 \ \mu A$	2.5 pA	$\pm 0.1\%$ of Value ± 20 pA
$\pm 200 \ \mu A$	25 pA	$\pm 0.1\%$ of Value + 100 pA
$\pm 2 \text{ mÅ}$	250 pA	$\pm 0.1\%$ of Value + 1 nA
$\pm 20 \text{ mA}$	2.5 nA	$\pm 0.1\%$ of Value + 10 nA
$\pm 200 \text{ mA}$	25 nA	$\pm 0.1\%$ of Value + 100 nA

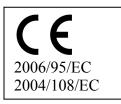
CURVE TRACER RANGE, RESOLUTION AND ACCURACY Same as DC PARAMETRIC MEASUREMENT specifications above.

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 L: 28kg (61 lbs) 1024 pins CurveMaster C: 14kg (30 lbs) 384 pins Each 128 pins: 2 lbs Dimensions (Test head only) H508mm x W438mm x D438mm (2048 model) H330mm x W438mm x D438mm (1024 model) H165mm x W515mm x D450mm (384 model) Cooling forced air cooled Temperature 60 to 80 °F (16 to 27°C)









17805 Sky Park Circle, Suite E Irvine CA, 92614 1-800-HILEVEL