





Precision Curve Tracer

CurveMaster XL

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!





Price and Performance

The CurveMasterTM 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 CurveMasterTM is built with todayos components and technology. With all new high-accuracy DC Parametrics, youd enjoy the most powerful curve tracer you have ever used. Why settle for old used equipment or repackaged old technology?



	-4,000 mA	-2,000 mA	0,000 mA	2,000 mA	4,000 mA	
						Start
0,00 m¥						Measure
						• voltage (force I)
,00 m¥						current (force V)
00 m¥						3,300 🗘 V 🗸
,00 m¥						Force parameters
						-5,000 🗘 mA 🗸
) m¥						Maximum 5,000 ♀ mA ✓
						Delta
						200,000 🗘 µA 🔽
),00 m¥						Pins
						Load Setup
),00 m¥						Save Setup Results
			المس			Save Image
0,00 m¥						
18 A DUT						Golden Pin File
						Load
						Variance 1000 🗘

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

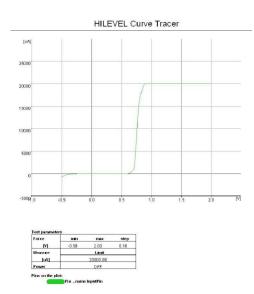




🕒 Hilevel Curve Mast	er					
	-4,000 mA	-2,000 mA	0,000 mA	2,000 mA	4,000 mA	
						Start
600,00 m¥						• voltage (force I)
400,00 m¥						 current (force Y) Limit
						3,300 😂 ¥ 🔽
200,00 m¥						Force parameters Minimum -5,000 🔅 mA 💙 Maximum
0,00 m¥						5,000 \$ mA Delta 200,000 \$ µA ¥
-200,00 m¥						Pins
-400,00 m¥						Save Setup Results Save Image
-500,00 m¥	•	•				
228 A DUT						Golden Pin File

Golden Pin is a definable **%**olerance+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 '	Trace Fi.	le Result	5.
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	-6578.83	267	-6480.9015
-0.6000	-2026.30	070	-2000.4268
-0.5000	-624.11	13	-617.4615
-0.4000	-192.2290		-190.5887
-0.3000			-58.8280
-0.2000	-18.236	1	-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	1042.87	55	1058.6332







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
$\pm 20 \mu A$	2 pA	$\pm 0.2\%$ of Value + 1 nA
$\pm 200 \mu A$	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
$\pm 2 A$	200 nA	$\pm 0.1\%$ of Value + 100 μ A



Specifications

DC128 PARAMETRIC MEASUREMENTS

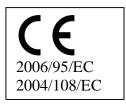
One DCPMU per 32 pins, four per DC128Module, plus one main DCPMUForce Voltage Range: -8V to +8VVoltage Measurement Range: -8V to +8VResolution: 1mVAccuracy: 0.2% ± 2mVForce Current Range: -150 mA to +150 mACurrent Measurement Range: ± 200 mAResolution & Accuracy: Range DependentResolution & Accuracy: 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
$\pm 20 \ \mu A$	1 nA	$\pm 0.2\%$ of Value + 4 nA
$\pm 200 \mu A$	10 nA	$\pm 0.2\%$ of Value + 40 nA
$\pm 2 \text{ mA}$	100 nA	$\pm 0.2\%$ of Value + 400 nA
$\pm 20 \text{ mA}$	1 μΑ	$\pm 0.3\%$ of Value + 4 μ A
± 150 mA	10 µA	$\pm \ 0.4\%$ of Value + 40 μA

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)









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