KSON
INSTRUMENT TECHNOLOGY

MLR导通电阻量测系统
Micro Resistance Evaluation System

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High Technology 科技创新技术

※可与恒温恒湿机或冷热冲击机搭配使用

暂停後继续避免电阻量测波动技术

可於待测品电阻值稳定之後继续量测记录，避免记录到不稳态的电阻值

Technology of continue after suspension to avoid resistance fluctuation.

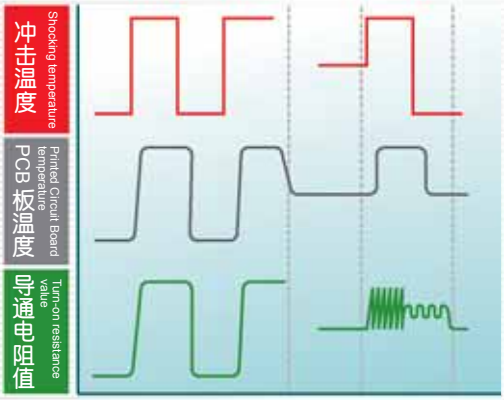
可执行温度循环量测以及定点量测试验

与冲击机、温湿度箱、振动台、弯曲试验机进行测试整合

Able to perform temperature cycling test and fixed-point test (testing integrated with thermal shock tester, temperature and humidity chamber, vibration tester, flexural tester).

暂停後继续避免电阻量测波动技术

Technology of continue after suspension to avoid resistance fluctuation.

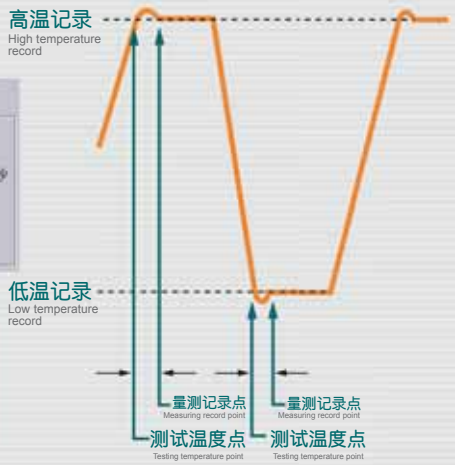


温度循环试验

Perform temperature cycling test.

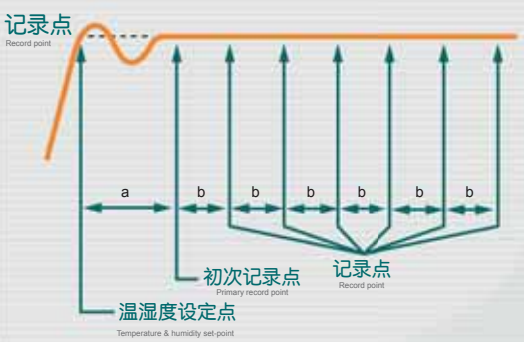
85℃/85% RH

-40℃↔125



定点温湿度试验

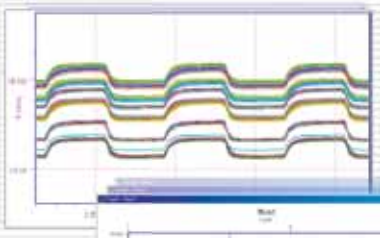
Fixed-point test



Key Value
核心价值

温度冲击与电阻量测曲线同步显示
於同一个视窗可直接观看温度冲击及电阻的纪录曲线

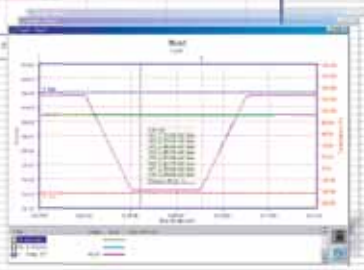
Thermal shock and resistance evaluation curve synchronously display.



温度冲击与电阻量测曲线同步显示
Thermal shock and resistance evaluation curve synchronously display.

自动更新量测试验曲线画面
记录多点待测品表面温度变化与冲击驻留时间控制

Multi-points record of temperature change on specimen surface and control of shocking dwell time.



自动更新量测试验曲线画面
Auto-renew testing curve display.

任意指定及现值比对点
可依据规范还有待测品特性指定极限值比对点

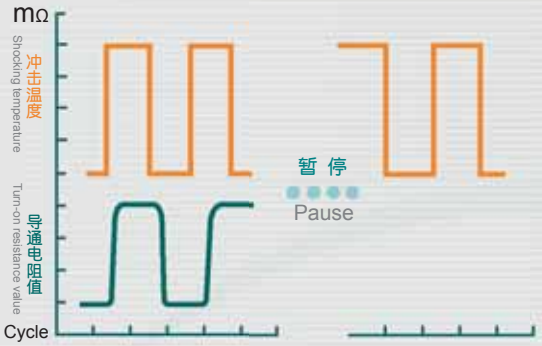
Assign limit value comparing point at will (in accordance with the standards and specimen characteristic to assign limit value).

任意指定极限值比对点
Assign limit value comparing point

试验中机台与量测系统同步暂停
可进行实验中待测品取出故障分析或新增待测品

Synchronous suspense during experiment between the apparatus and evaluation system (may proceed for in-experimental specimen take out, failure analysis or adding specimen).

量测系统试验暂停 Suspend testing of evaluation system
（温度稳定後量测 / 直接量测）
(evaluation after temperature stabilized / direct evaluation)



◎导通电阻量测试验条件摘要 Summary of specifications for turn-on resistance

试验规范 Test specification	冲击温度一 Shocking temperature 1	常温 Normal temperature	冲击温度二 Shocking temperature 2	冲击斜率 Shocking ramp	循环数 Cycle	电阻%限制 Resistance percentage limit	备注 Remark
MIL-P-55110D	-65℃(15min)	15min	125℃(30min)	无	100cycle	<10%	试验镀铜层及板材结构的耐用品质 Testing copper plating layer and durable quality of sheet material structure.
IPC 650 2.6.7.2	-65℃(15min)		125℃(30min)		100cycle	<10%	
IPC-6012A	-55℃(15min)	15min	125℃(30min)	无	100cycle	<10%	试验镀铜层及板材结构的耐用品质 Testing copper plating layer and durable quality of sheet material structure.
IPC-S-804B 3.4.3	-65℃		125℃	无	100cycle	<10%	
IPC 650 2.6.26	R.T.		150℃		250cycle	<10%	

KSON

即时方便 安全安心

三种语系操作介面

繁体中文、简体中文、英文

Three types of language for operation interface (traditional Chinese, simplified Chinese, English).

智慧型EXECL分档系统

主动依据记录容量分割多个EXCEL档，避免发生爆档并且遗失资料

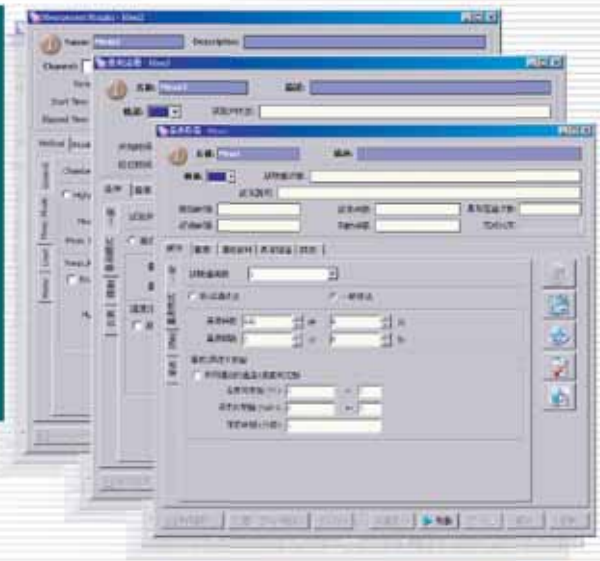
Intelligent EXCEL classify system.

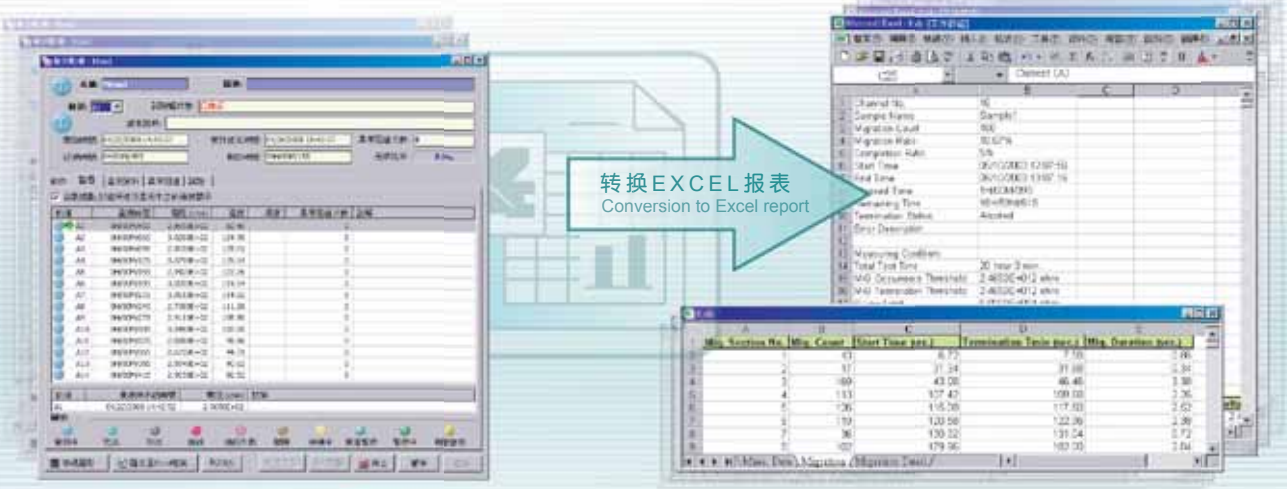
停电备份保护

具有定时自动备份外，系统侦测发生停电，立即进行储存资料避免遗失

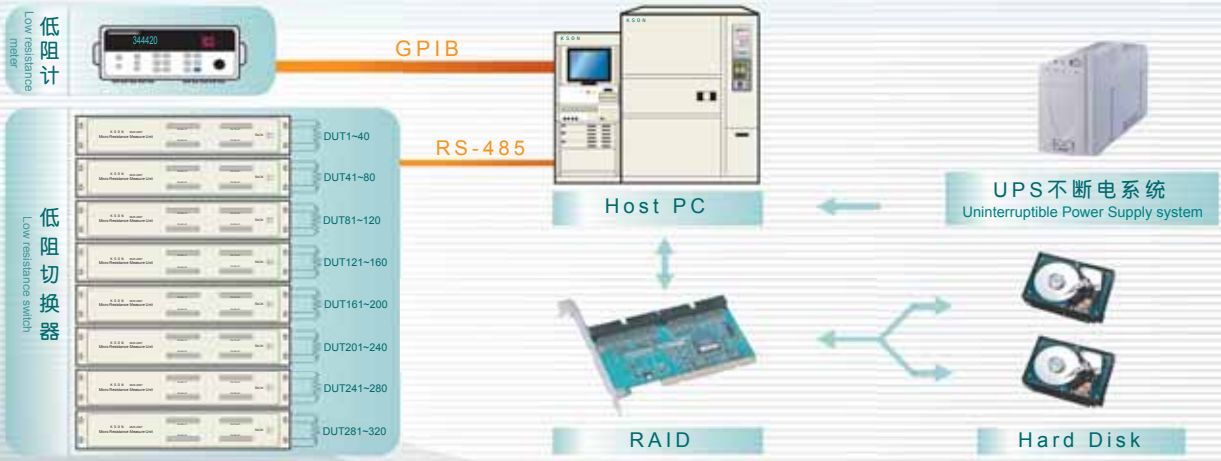
The machine uses UPS to continuously supply power when the main is stopped and automatically stores date regularly.

繁体中文、简体中文、英文 (traditional Chinese, simplified Chinese, English)





◎MIR系统架构图 (Micro Resistance Evaluation System architecture diagram)



MLR导通电阻量测系统 Micro Resistance Evaluation System

规　格 Specification	MLR导通电阻量测系统 Micro Resistance Evaluation System	
型号(Model)	MLR-34420	MLR-4338
※电阻测试范围 (Resistance measuring range)	$1X10^{-3}\Omega$ ～$1X10^{6}\Omega$	$1X10^{-3}\Omega$ ～$1X10^{4}\Omega$
低阻量测模式 (Low resistance evaluation mode)	直流(D.C.)	交流(A.C.)
测试频率 (Measurement frequency)	无(n/a)	1KHz
量测电池低阻(Evaluation of low resistance for battery)	无(n/a)	可(available)
量测电阻值范围与测量档位 (Evaluation of resistance range and measurement gear)	1Ω-10Ω 10Ω-100Ω 100Ω-1KΩ 1KΩ-10KΩ 10KΩ-100KΩ 100KΩ-1mΩ AUTO(自动换档)	1mΩ～10mΩ 10mΩ～100mΩ 100mΩ～1Ω 1Ω～10Ω 10Ω～100Ω 100Ω～1KΩ 1KΩ～10KΩ AUTO(自动换档)
电流测定范围 (Measurement current)	5μA.10μA.100μA.1mA.10mA	1μA.10μA.100μA.1mA.10mA.AC(rms)
搭配仪表 (Measuring instrument)	HP34420A	HP4338B
测试方法 (Measurement method)	4端子(线式)测试法 4-terminal (wire) measurement method.	
通道数 (Channel configuration)	标准40通道(一次扩充40通道，最大320通道) Standard 40 channels (max. 320 channels on 40 channel basis)	
量测精度 (Measurement Accuracy)	±0.4%(<100mΩ:±10%)	<100mΩ:±10% 100mΩ~10KΩ:±0.9% >10KΩ:±5.5%
测试间隔 (Measurement intervals)	500ms	
最大试验时间 (Maximum testing time)	9999Hr	
判定导通设定范围 (Setting range)	相对值判断变化量Rate of change evaluation：(ΔRa)0.1mΩ～1000.01mΩ 变化率Absolute value evaluation：(ΔRa)0.1%～99.9%绝对值判断 0.1mΩ～2KΩ	
循环试验方式(Cycling method)	温度冲击、温湿度循环 (thermal shock, temperature and humidity cycling)	
定点测试模式 (One-point testing mode)	定点高温、定点低温、定点温湿度、常温 one-point high temperature, one-point low temperature, one-point temperature and humidity, room temperature	
记录资料内容(Recording data)	时间&循环数、电阻值、电阻变化率ΔRa、温度、湿度 time & cycle, resistance, change of resistance, temperature, humidity	
EXCEL转档	XLS档案格式(超过档案容量自动分档) .xls file format (auto-filing when exceeding file volume)	
电脑系统(PC system)		
CPU	Pentium Core2Duo以上	
RAM	1GMB记忆体以上	
Hard Disk	2个80GB硬碟以上	
作业系统(OS)	WinXP(Windows XP)单机版以上	
显示器(Monitor)	17寸TFT萤幕17" TFT monitor	
网路卡(Network interfacecard)	10/100M网路卡10/100M network interface card	
光碟(CD-Rom drive)	DVD烧录器DVD burner	
UPS	避免系统发生电源瞬断 Uninterruptible Power Supply protects system from power failure	
量测线材(Measurementcable)	耐热扁平排线，长度为从信号转接器起开始4m Heat-resistant flat cable, 4m from connection unit	
测试整合机台 (Integrated measurement system)	三箱气体式冷热冲击机、恒温恒湿机 air to air thermal shock tester, temperature and humidity chamber	
系统柜尺寸(External dimension)	W 600 ×H 1731 ×D 850 mm	
电源要求(Power requirements)	电源AC110V～240V 1Φ 50/60Hz 10A	
扩充设备(optional Accessories)	PCB放置治具(PCB placement fixture)	

※ 保证标准系统构成的电缆测试端的测试资料。
Value guaranteed at end measurement cable of standard system.

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Model Code

MLR -34420 -A

- 型号
  - 34420
  - 4338
- 轨道
  - 40
  - 80
  - 120
  - 160
  - 200
  - 240
  - 280
  - 320

标配附件

▲MLR量测线材（4米）▲
MLR measuring wire (4m)

▲MLR远距转接盒（6米）▲
MLR remote mobile box (6m)

营业项目-

恒温恒湿机(标准型/超低湿实验型/等温型)/冷热冲击机(气体式三箱/二箱移动式)/等均温快速温变试验机/自然对流试验机/预烧室/恒温恒湿室/蒸气老化寿命试验机/高压加速寿命试验机/复合型环境试验机/超高阻计/精密温湿度计/切换式超高电阻箱/数位收集系统/高速离子迁移量测系统/表面绝缘电阻量测系统/e化管理系统/实验室机台管理系统/

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