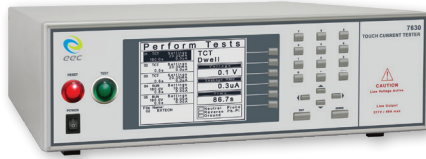


7630 接触电流测试仪



7630 系列具备全功能的接触电流量测电路设计，无须再为不同的 MD 量测电路及测试条件配置需求而烦恼。7630 可启用负载监视功能，在 277V 电压下承受待测物最高电流 40A 负载。搭配完整的通讯介面如 USB、RS232、GPIB 和以太网网卡，可执行高效率的自动化测试。

产品特色

- 提供 7 组人体模拟线路 (MD) 及 8 组失效模式分析 (Fault Condition)，模拟真实世界的各种可能触电危险状况。
- 负载容量可高达 40A 有效值，使其适用于大电流工业产品。
- 可同时显示电流量测值或 MD 两端电压值，清楚呈现测试结果。
- MD 可抽换式设计，让使用者易于替换不同选择外，更满足快速的的校验、维修与替换。

通讯介面



USB 介面



RS-232 介面



以太网网卡
(选购)



GPIB 卡
(选购)

| 7630 产品规格 | | |
|---------------------------------------|--|--|
| 型号 | 7630 | |
| 输入电源 | | |
| 电压 (交流) | 115/230V ± 15% | |
| 频率 | 50/60Hz ± 5% | |
| 接触电流测试 | | |
| 电源状态 | Power Switch : Reverse polarity switch for normal condition (on/off/ auto setting) Neutral Switch : Neutral switch on/off selection for single fault condition Ground Switch : Ground switch on/off selection for class I single fault condition | |
| 测试棒设定 | Surface to Surface (PH-PL), Surface to Line (PH-L), Ground to Line (G-L), Ground to Neutral (G-N), Auto Function (G-N & G-L) | |
| 泄漏电流 & 最大电流显示范围 ¹ (有效值) | 0.0uA-20.00mA | |
| 泄漏电流 & 最大电流解析度 (有效值) | 0.0-999.9uA | 0.1uA |
| | 1000-8399uA | 1uA |
| | 8.40-20.00mA | 0.01mA |
| 泄漏电流 & 最大电流精度 (有效值) (交流 + 直流) | 直流 | ±(2% of reading + 3 counts) ² |
| | 15Hz < f < 100kHz | ±(2% of reading + 3 counts) ² |
| | 100kHz < f < 1MHz | ±(5% of reading) (> 10.0uA) |
| 泄漏电流 & 最大电流精度 ³ (有效值) (交流) | 15Hz < f < 30Hz | ±(3% of reading + 5 counts) ² |
| | 30Hz < f < 100kHz | ±(2% of reading + 3 counts) ² |
| | 100kHz < f < 1MHz | ±(5% of reading) (> 10.0uA) |
| 泄漏电流 & 最大电流精度 ⁴ (有效值) (直流) | ±(2% of reading + 3 counts) ² (> 10.0uA) | |
| 泄漏电流 & 最大电流显示范围 ¹ (峰值) | 0.0uA-30.00mA | |
| 泄漏电流 & 最大电流解析度 (峰值) | 0.0-999.9uA | 0.1uA |
| | 1000-8399uA | 1uA |
| | 8.40-30.00mA | 0.01mA |
| 泄漏电流 & 最大电流精度 (峰值) (交流 + 直流) | 直流 | ±(2% of reading + 3 counts) |
| | 15Hz < f < 1MHz | ±(10% of reading + 2uA) ⁵ |
| 泄漏电流 & 最大电流精度 ² (峰值) (交流) | 15Hz < f < 1MHz | ±(10% of reading + 2uA) ⁵ |
| 接触电压显示范围 (有效值) | MD Resistance is 0.5kΩ | 0.0mV-10.00V |
| | MD Resistance is 1kΩ | 0.0mV-20.00V |
| | MD Resistance is 1.5kΩ | 0.0mV-30.00V |
| 接触电压解析度 (有效值) | 0.0-999.9mV | 0.1mV |
| | 1000-8399mV | 1mV |
| | 8.40-10.00V | 1V |
| 接触电压精度 (有效值) (交流 + 直流) | 直流 | ±(2% of reading + 3 counts) ⁶ |
| | 15Hz < f < 100kHz | ±(2% of reading + 3 counts) ⁶ |
| | 100kHz < f < 1MHz | ±(5% of reading) (> 10.0mV) |
| 接触电压精度 ² (有效值) (交流) | 15Hz < f < 30Hz | ±(3% of reading + 5 counts) ⁶ |
| | 30Hz < f < 100kHz | ±(2% of reading + 3 counts) ⁶ |
| | 100kHz < f < 1MHz | ±(5% of reading) (> 10.0mV) |
| 接触电压精度 ³ (有效值) (直流) | ±(2% of reading + 3 counts) ⁶ (> 10.0mV) | |

| 型号 | | 7630 |
|-------------------------------|--|--|
| 接触电压显示范围 (峰值) | MD Resistance is 0.5kΩ | 0.0mV-15.00V |
| | MD Resistance is 1kΩ | 0.0mV-30.00V |
| | MD Resistance is 1.5kΩ | 0.0mV-45.00V |
| 接触电压解析度 (峰值) | 0.0-999.9mV | 0.1mV |
| | 1000-8399mV | 1mV |
| | 8.40-15.00V | 1mV/1V |
| 接触电压精确度 (峰值)(交流+直流) | 直流 | ±(2% of reading + 3 counts) ⁷ |
| | 15Hz < f < 1MHz | ±(10% of reading + 2mV) |
| 接触电压精确度 ² (峰值)(交流) | 15Hz < f < 1MHz | ±(10% of reading + 2mV) ⁷ |
| 人体模拟线路 (MD) | MD1 | IEC60990 Fig4 U2, IEC 60950-1, IEC 62368-1, IEC60335-1, IEC60598-1, IEC60065, IEC61010 |
| | | IEC60990 Fig4 U1 |
| | MD2 | IEC60990 Fig5 U3, IEC60598-1, IEC 62368-1 |
| | | IEC60990 Fig5 U1 |
| | MD3 | IEC 60601-1 |
| | MD4 | UL544NP, UL484 , UL923, UL471, UL867, UL697 |
| | MD5 | UL544P |
| | MD6 | UL1563 |
| MD7 | IEC60950, IEC61010-1 FigA.2 (2k ohm) for RUN Test MD Circuit | |
| External MD & Frequency check | | Basic measuring element 1kΩ |
| MD 元件精确度 | | Capacitance : ± 1%; Resistance : ± 1% |
| MD 电压限制 | | Maximum 70Vpeak or 70Vdc |
| 泄漏电流归零调整 | | 0-6500uA |
| 待测物功率 (交流) | | 277.0V/40 Arms max continuous |
| 电压显示范围 | | 0.0-277.0V |
| 电压显示解析度 | | 0.1V/step |
| 电压精确度 | | ±(1.5% of reading + 2 counts) , 30.0-277.0V |
| 过电流保护 | | 50 Arms, Response Time < 2 s/250Apeak Response Time < 10us |
| 延迟时间 | 交流 + 直流 | 0.5-999.9s |
| | 交流 / 直流在自动档位下 | 1.8-999.9s |
| | 交流 / 直流在固定档位下 | 1.3-999.9s |
| 测试时间 | 交流 + 直流 | 0, 0.5-999.9s (0 = continuous) |
| | 交流 / 直流 | 0, 0.1-999.9s (0 = continuous) |
| 时间解析度 | | 0.1s |
| 时间精确度 | | ±(0.1% of reading + 0.05s) |

| 型号 | | 7630 |
|--|-----|--|
| 35mArms/75mApeak 量测范围 (选购) | | |
| 人体模拟线路 (MD) | MD1 | IEC60990 Fig4 U2, IEC 60950-1, IEC60335-1, IEC60598-1, IEC60065, IEC61010 |
| | MD2 | IEC60990 Fig4 U1 |
| | MD3 | IEC60990 Fig5 U3, IEC60598-1 |
| | MD5 | IEC60990 Fig5 U1 |
| 电气性能测试 | | |
| 功率量测范围 | | 0.0 - 10kW |
| 功率精确度 | | ± (5% of reading + 3 counts) |
| 功率因素 | | 0.000 - 1.000 |
| 功率因素精确度 | | ± (8% of reading + 2 counts) |
| 电压量测范围 (交流) | | 0.0 - 277.0V , 1ø |
| 电压精确度 | | ± (1.5% of reading + 2 counts) |
| 电流量测范围 (交流) | | 0.000 - 40.00A |
| 电流精确度 | | ± (2% of reading + 5 counts) |
| 泄漏电流量测范围 | | 0.00 - 10.00 mA |
| 泄漏电流精确度 | | ± (2% of reading + 2 counts) |
| MD (L-G) | | Resistor MD 2kΩ ± 1% |
| 一般规格 | | |
| 远程控制输入讯号 | | Test, Reset, Interlock, Recall File 1 through 10 |
| 远程控制输出讯号 | | Pass, Fail, Test-in-Process, Start-Out, Reset-Out |
| 记忆组 | | 40 memories, 30 steps/memory Max. Result Display 900 data (30 memories x 30 steps) |
| 自动反向功能 | | AUTO Reverse ON/OFF parameter setting selection Automatic Reverse polarity switch for normal condition in one step setting menu Only display maximum leakage current value |
| 示波器输出介面 | | At rear panel BNC type to connect scope for some IEC standards test requirement and application |
| 显示器 | | 320 x 240 graphic LCD/Contrast 9 Levels 1-9 |
| 介面 8 | | Standard USB & RS232, Optional Ethernet, GPIB |
| 外部扩展器连接 | | Yes |
| 操作温度 / 储存温度 / 湿度 | | 0 to 40°C/-40 to 75°C/20 to 80%RH |
| 尺寸 (宽 x 高 x 深), mm | | 430 x 133 x 300 |
| 重量 | | 12kg |
| 标准配件 | | |
| Power Cable (10A)*1; Fuse*1; 1102 Hipot Return Lead - Alligator Clip*2; 1148 DUT Power Cable (3 Wires)*1; 1151 DUT Power Cable (2 Wires)*1; 1224 USB Cable*1; 1505 Interlock Disable Key*1 | | |

***Product specifications are subject to change without notice**

- For Leakage Current: if the final measured signal is > 5mA, then the maximum composite signal can be measured is 28Vpeak. If the final measured signal is ≤5mA, then the maximum composite signal can be measured is 12Vpeak.
For Leakage Voltage: if the final measured signal is > 8V, then the maximum composite signal can be measured is 28Vpeak. If the final measured signal is ≤8V, then the maximum composite signal can be measured is 12Vpeak.
- When current > 5mA, the accuracy is ±(5% of reading).
- AC cutoff frequency for High Pass Filter is 15Hz on AC only mode.
- AC cutoff frequency for Low Pass Filter is 15Hz on DC only mode.
- When current > 5mA & 15Hz < f < 100kHz, the accuracy is ±(10% of reading + 2 counts).
- When voltage > 8V, the accuracy is ±(5% of reading).
- When voltage > 8V & 15Hz < f < 100kHz, the accuracy is ±(10% of reading + 2 counts).
- Only one interface can be selected among RS232 & USB, GPIB & Ethernet interface card.

产品型号

- 7630 Touch Current Tester

选购功能

- OPT.109 Replace RS232 Interface by GPIB Interface
- OPT.754 High Measurement Range 35mArms/75mApeak & 4MDs
- OPT.760 HV (5kVac/6.0kVdc) & GB(40A) Link Module
- OPT.766 AC/DC/AC + DC Touch Current Measurement
- OPT.789 MD Module (5MDs)JIS C9250, UL544NP, UL1563
- OPT.7020 MD 1k ohm (non-inductive resistor)
- OPT.7021 MD NFPA99 Figure A.8.4.1.3.3
- OPT.7022 MD IEC60974
- OPT.7023 MD IEC60598-1
- OPT.7024 MD NFPA99 Figure A.4.3.3.1.3b
- OPT.7025 MD NFPA99 Figure A.4.3.3.1.3a
- OPT.7027 MD 2k ohm (non-inductive resistor)
- 7006 Matrix Scanner
- 6600 Series Programmable AC Power Source (6605, 6610, 6620, 6630, 6650)
- 6700 Series Programmable AC Power Source (6705, 6710, 6720, 6730, 6740)

Note: 1. OPT.754, OPT.766 & OPT.789 are mutually exclusive, only one Option can be selected.
- OPT.789: UL544P, IEC60601 and External MD will be disable and OPT.789 is mutually exclusive with OPT.754, OPT.7020-OPT.7027.
2. OPT.7020 to OPT.7027 are mutually exclusive, only one Option can be selected.