ESC-125NEW 洩漏電流測試器

Line Leakage Testers

【特點】

- 顯示器升級為 OLED，顯示明亮清晰容易閱讀
- 可以和華儀耐壓測試器結合使用，組成自動化測試系統
- 內建 99 組程式記憶組
- 內置微處理器，數值精準，操作簡易
- 完全符合安全標準的規範
- 內建常見標準的人體模擬阻抗，一組外接，使用效率高
- 可量測常態，單一故障及接地失效的洩漏電流
- 量測頻寬達 1MHz 符合 IEC 相關標準要求
- 可外接標準 GPIB / USB & RS232 界面作控制
- 前面板軟體輸入校正
- 鍵盤鎖定功能
- 量測速度快，準確度高

【Features】

- It is upgraded to OLED display and the value will be clearer to read.
- Able to link EXTECH safety tester and AC Power Source to form a complete Electrical Safety Test System
- Storage up to 99 memories
- Built-in microprocessor design with high accuracy of measurement and user friendly
- Full compliance to various safety agencies standard
- Built-in common Measuring Devices (MD) and an external MD circuit connection also available
- Able to perform normal, single fault and ground open measurement configurations
- Wide measurement bandwidth DC - 1MHz for IEC compliance requirement
- Option GPIB or USB & RS232 interfaces
- Front panel software calibration
- Front Panel Lockout
- Fast and accurate measurement test result

ESC 系列

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【Specification】

MODEL		ESC-125		
MODEL				
Voltage		115 / 230VAC ± 15%, User selection		
Frequency		50 / 60 Hz ± 5%		
Fuse		2A / 250V Slow-Blow fuse		
Line condition				
Power Switch		Reverse polarity switch setting select ON / OFF		
Neutral Switch		Neutral switch on/off selection for single fault condition		
Ground Switch		Ground switch on/off selection for class I single fault condition		
Probe Setting				
Ground to Line (G - L)		V		
Surface to Line (PH - L)		V		
Surface to Surface (PH - PL)		V		
SETTING				
Leakage HI / Lo Trip	Range	0uA, 1uA - 10000uA (0 = OFF)		
	Resolution	1uA		
LeakageHI / Lo Trip (Peak)	Range	0uA, 1uA - 15000uA (0 = OFF)		
	Resolution	1uA		
Leakage Current RMS Display				
Range		MD Major Resistance is 0.5KΩ	MD Major Resistance is 1KΩ	MD Major Resistance is 1.5KΩ
Range 1		0.0uA - 260.0uA	0.0uA - 130.0uA	0.0uA - 85.0uA
Range 2		"240.0uA - 999.9uA, 1000uA - 1050uA"	120.0uA - 525.0uA	80.0uA - 350.0uA
Range 3		"800.0uA - 999.9uA 1000 - 4200uA"	"400.0uA - 999.9uA 1000uA - 2100uA"	"266.6uA - 999.9uA 1000uA - 1400uA"
Range 4		3600uA - 10000uA	1800uA - 10000uA	1200uA - 10000uA
Leakage Current RMS Display				
Range		Frequency	Basic Accuracy	
Range 1 - 4		DC, 15Hz - 200KHZ	± (2% of reading + 5 counts)	
		200K - 1MHZ	± (5% of reading)	
Option Leakage Current Peak Display				
Range		MD Major Resistance is 0.5KΩ	MD Major Resistance is 1KΩ	MD Major Resistance is 1.5KΩ
Range 1		0uA - 260uA	0uA - 130uA	0uA - 85uA
Range 2		240uA - 1050uA	120uA - 525uA	80uA - 350uA
Range 3		800uA - 4200uA	400uA - 2100uA	266uA - 1400uA
Range 4		3600uA - 15000uA	1800uA - 15000uA	1200uA - 15000uA
Option Leakage Current Peak Display				
Range		Frequency	Basic Accuracy	
Range 1 - 4		DC, 15Hz - 1MHZ	± (10% of reading + 2uA)	

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MODEL		ESC-125
MD Circuit module		
Measuring Device (MD)		A, B, C, D, E, F, G
		MD A. UL 544 Non Patient, UL484
		MD B. UL 544 Patient Care
		MD C. IEC60601-1, UL2601-1, EN 60601-1
		MD D. UL1563
		MD E. UL60950, IEC60950, IEC61010 - 1, IEC60335-1, IEC60990
		MD F. External MD
		MD G. Basic measuring element 1KΩ of Frequency check
MD Components		Resistance accuracy = 1%; Capacitance accuracy = 5%
MD Voltage Limit		Maximum 32Vdc
Internal Leakage		1. Internal Leakage current = 65uA, 2. 277V applied to Ph max leakage current = 70uA
Leakage Current Offset		Range : 0 - 999.9uA ; Resolution : 0.1uA
DUT POWER		
AC Voltage Display	Range	30.0- 300.0V
	Resolution	0.1V
	Accuracy	± (1% of reading + 2 counts) , 30.0 - 300.0VAC
AC Current		30A max continuous
Over current protection		32A, Response time < 600ms / 68Apeak, Response time < 600ms
Delay Time	Range	0, 1.0 - 999.9s (0 = continuous)
	Resolution	0.1s
GENERAL		
PLC Remote Control		Input : Test, Reset, and Recall Memory 1 through 3
		Output : Pass, Fail, Processing Pass, Fail, Processing, Start-Out, Reset-Out
Memory		99 memories, 8step / memory
Display		20 x 2 OLED
Alarm Volume Setting		Range : 0 - 9; 0 = OFF, 1 is softest volume, 9 is loudest volume
Key Lock		To prevent unauthorized alteration of the test Parameters
Calibration		Software and adjustments are made through front panel
Interface		Optional USB & RS232, GPIB
Environment		0 - 40°C, 20 - 80%RH
Dimension (W xH x D), mm		430 x 89 x 400
Net Weight		11.5Kg
STANDARD ACCESSORIES		
Power Cord (10A)		x 1
Fuse		× 2 (Including a spare contained in the fuse holder)
Hipot Test Lead, 1.5m (1101)		x 1
Dut Input Power Lead 40A, 3m (1151)		x 1
LLT Receptacecle Adaptor Box 20A, 3m (1932)		x 1

*Product specifications are subject to change without notice

【Ordering Information】

ESC-125 Line Leakage Tester

Opt.731 GPIB Interface

Opt.763 USB & RS232 PC control Card

Opt.779 Peak measurement circuit

ESC 系列　ESC-125NEW 洩漏電流測試器

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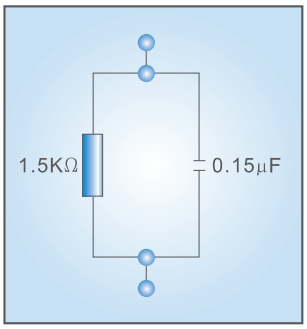
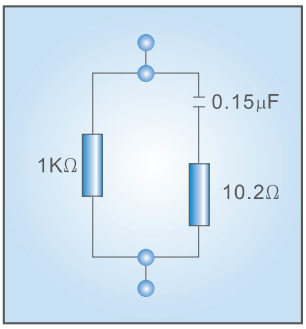
Built-in Measuring Device

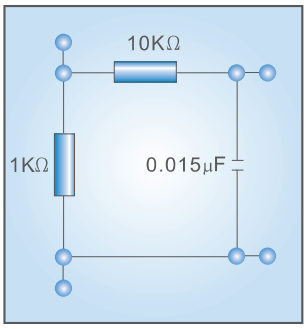
MD A=UL544NP、UL484、 IEC60598



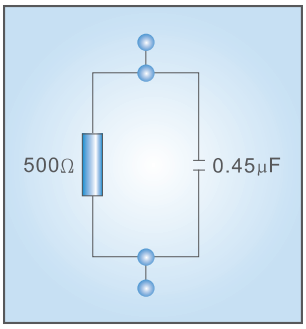
MD B=UL544P



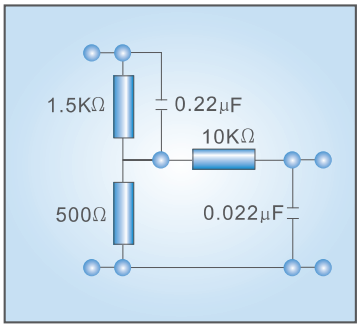
MD C = IEC60601-1,UL2601-1, EN60601-1



MD D= UL1563



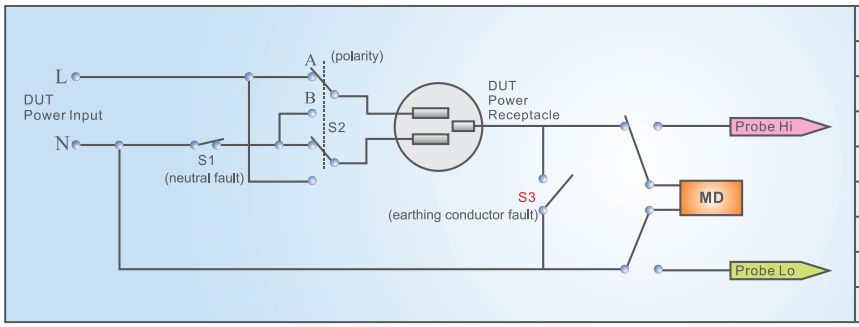
MD E = IEC61010-1,UL61010, IEC60950, IEC 60335-1、IEC60990



Cross Reference Letter	Agency Specification	Application
A	UL544 Non patient equipment	Medical Equipment
B	UL544 Patient care equipment	Medical Equipment
C	IEC60601-1,UL2601,EN60601-1	Medical Equipment
D	UL1563	Electric Spas, Equipment Assemblies and Associated Equipment
E	IEC61010-1,	Laboratory Equipment.
	IEC60950,UL60950,EN60950	Information Technology Equipment.
F	User configurable	User configurable
G	Frequency check	Frequency check

Measurement configuration

In accordance to IEC, UL or any safety standards for line leakage test, the model ESC-125 can be setup to 8 types of measurement configurations test in normal, reverse polarity, neutral fault, earthing conductor fault.
Different types of measurement configurations can be setup into one memory and the user able to run the test by pressing the button. The instrument will complete all the test parameters automatically.



S1	S2	S3	Conditions
C	A	C	Normal
C	B	C	Reverse
C	A	O	Ground Open
C	B	O	Reverse & Ground Open
O	A	C	Neutral Open
O	A	O	Neutral Open & Ground Open
O	B	O	Neutral Open & Reverse & Ground Open
O	B	C	Neutral Open & Reverse

S1=Neutral S2=Reverse S3=Ground O: open C: close

Probe Connections