



ESM-500 MultiPRO

Electrical Safety Platform

A testing solution fully optimized for the manufacturing industry.

The ESM-500 MultiPRO provides complete testing functionalities and easily scalable performance via a revolutionary modular platform design. Combining high efficiency, high accuracy, excellent safety, ease of maintenance and low total cost of ownership in a compact package, it is the best solution for production tests.



VERICHEK



Ramp High



Charge Low



ARC Detection



Fast Discharge



Smart GFI

KEY FEATURES

- Multi-functional modules design, defines your combination of solution
- Up to 100 channel synchronized testing
- Single/dual channel independent module design
- Simplifies spare parts demand, no need to purchase the entire system.
- Independent test result identification
- Efficient data collection, no computer needed.
- EEC proprietary ARC detection

Communication Interface



USB



RS-232



LAN



GPIB
(Optional)

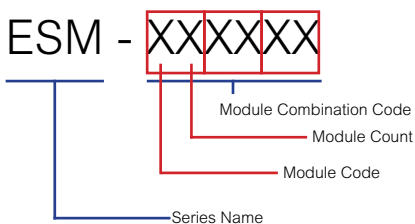
Specification

MODEL	ESM-500T		
Support Module (QTY)	5		
Support Channel (QTY)	10(Max.)		
Linked Device (QTY)	10(Max.)		
INPUT			
Voltage	100 - 240 VAC ± 10% (Full Range)		
Apparent Power	1500VA Max.		
Fuse	15A / 250Vac		
Frequency	50/60Hz		
GENERAL			
PLC	Input: Test, Reset, Interlock, Recall File 1 through 15 Output: Pass, Fail, Test-in-Process		
Memory	100 Files and 300 steps		
Display	7" TFT LCD with Touch Panel		
Interface	Standard: USB, RS-232, LAN, Option: GPIB		
Multinational Language	English / Traditional Chinese / Simplified Chinese		
Safety Label	CE		
Operation Environment	0 - 40, 20 - 80%RH		
Dimension (W x H x D), mm	430 x 178 x 570		
Weight	16.2kg		
STANDARD ACCESSORY			
Power code	X1		
1406 Rack Mount Kit	X1		
1409 Cover for mainframe	X3		
1541 Interlock	X1		
MODEL	ESM-510	ESM-530	ESM-531
Function	ACW	ACW DCW IR	ACW DCW IR
Channel	2	2	1
AC WITHSTAND VOLTAGE			
Output Rating	5KV/10mA	5KV/10mA	5KV/20mA
Voltage Range	0.05 - 5.00KV	0.05 - 5.00KV	0.05 - 5.00KV
Voltage Resolution	0.01KV		
Voltage Accuracy	± (1% of setting + 5V)		
Current Range	0 - 10000uA		0 - 20000uA
Current Resolution	1uA		
Current Accuracy	± (1% of reading + 0.5% of range)		
Output Frequency	50Hz/60Hz ± 0.1%		
Ramp-Up Timer	0.1 - 999.9s		
Ramp-Down Timer	0.0 - 999.9s		
Dwell Timer	0, 0.2 - 999.9s (Auto range) 0, 0.1 - 999.9s (Fixed range) (0 = continuous)		
Timer Resolution	0.1s		
Timer Accuracy	± (0.1% of setting + 0.05s)		
Current Offset	0 - 10000uA		0 - 20000uA
Arc Detection	1 - 9 ranges (9 is the most sensitivity)		

MODEL	ESM-510	ESM-530	ESM-531
DC WITHSTAND VOLTAGE			
Output Rating		6KV/6.5mA	6KV/7.5mA
Voltage Range		0.05 - 6.00kV	0.05 - 6.00kV
Voltage Resolution		0.01KV	
Voltage Accuracy		± (1% of setting + 5V)	
Current Range		0.00uA - 6500uA	0.00uA - 7500uA
Current Resolution		0.001uA / 0.01uA / 0.1uA / 1uA	
Current Accuracy		± (1% of reading + 0.5% of Range)	
Ramp-Up Timer		0.4 - 999.9s	
Ramp-Down Timer		0.0, 1.0 - 999.9s	
Dwell Timer		0, 0.2 - 999.9s (Auto range) 0, 0.1 - 999.9s (Fixed range) (0 = continuous)	
Timer Resolution		0.1s	
Timer Accuracy		± (0.1% of setting + 0.05s)*1	
Charge-LO		0.00 - 350.0uA	
Discharge Time		< 50 msec for no load, < 100 msec for capacitor load (all capacitance values in MAX load spec below)	
Maximum Capacitive Load DC Mode		0.655uF < 1KV, 0.325uF < 2KV, 0.217uF < 3KV, 0.163uF < 4KV, 0.13uF < 5KV, 0.108uF < 6KV	
Current Offset		0.00uA - 6500uA	0.00uA - 7500uA
Arc Detection		1 - 9 ranges (9 is the most sensitivity)	
INSULATION RESISTANCE			
Voltage Range		100 - 2000V	
Voltage Resolution		1V	
Voltage Accuracy		± (1% of setting + 0.1% of Range)	
Resistance Range		0.500MΩ - 50GΩ	
Resistance Resolution		0.001 / 0.01 / 0.1 / 1MΩ	
Ramp-Up Timer		0.1 - 999.9s	
Ramp-Down Timer		0.0, 1.0 - 999.9s	
Dwell Timer		0, 1.0 - 999.9s , (0 = continuous)	
Timer Resolution		0.1s	
Timer Accuracy		± (0.1% of setting + 0.05s)	
Charge-LO		0.00 - 350.0uA	
GENERAL			
Dimension (W x H x D), mm	128 × 83.32 × 490	128 × 83.32 × 490	128 × 83.32 × 490
Weight	5.8kg	5.8kg	4.4kg
ACCESSORIES			
1101 Hipot Test Lead	x2	x2	x1
1102 ReturnTest Lead	x2	x2	x1

*1 The voltage setting >500V can be stable before min setting time. <500V need to follow load to add the stable time.

* Product specifications are subject to change without notice.



ESM-A50000 → ESM-500T x 1, ESM-510 x 5

ESM-B50000 → ESM-500T x 1, ESM-530 x 5

ESM-C50000 → ESM-500T x 1, ESM-531 x 5

ESM-A3B200 → ESM-500T x 1, ESM-510 x 3, ESM-530 x 2

The Module Code within the Module Combination Code will be arranged in alphabetic order and will not repeat. The Module Count within the Module Combination Code represents the final order quantity of each module, and the total module count can not exceed 5. The Module Combination Code will be entered from left to right consecutively, with any unused space fill with 0. Ikonix Taiwan sales representative will generate the final Module Combination Code. If special specification is required, please contact Ikonix Taiwan representative.

Safer World Through Safety Testing

Order Information

Model	Code	Description
ESM-500T	N/A	ESM-500 Modular Terminal
ESM-510	A	ACW 50VA 2-channel Withstand Testing Module
ESM-530	B	ACW/DCW/IR 50VA 2-channel Withstand Testing Module
ESM-531	C	ACW/DCW/IR 100VA 1-channel Withstand Testing Module



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