

Our Hypot<sup>®</sup> Series raises the bar for production line Hipot testing. Improve traceability with onboard data storage and easily transfer test result data and test settings via convenient front panel USB. Take the guesswork out of your production line with the direct barcode connection to quickly associate products with pre-programmed test files. We've included advanced features like improved security and a touch screen interface that provides custom pop-up prompts displayed before each test step. We've dramatically reduced the weight and footprint of the Hypot<sup>®</sup> Series to make safety compliance a less strenuous ordeal. Quickly interconnect with the HYAMP® Series to form a complete safety compliance system.



Find the Model that Fits Your Testing Needs



## SAFETY & PRODUCTIVITY **FEATURES**





SmartGFI® **Remote Safety** Interlock Automatic Easily disable operator shock HV output protection

Data Transfer Easily import/ export test files and data via USB







Barcode Capability Direct barcode connection user interface

Multiple PLC Remote Languages Basic PLC Multi-Language relay control









Prompt & Hold Provides alerts & instructions between tests

Advanced User Security Customize ID & password protection

Interconnection Interconnect with HYAMP® to form a complete test system





Ramp-HI® Reduce ramp time during DC Hipot

Charge-LO® Confirms proper DUT connection

FailCHEK™ Confirms failure detection



Cal

options

available



WithStand® Automation Accredited Software calibration

On Board Data

Storage Save up to 1.500 Test Results on-board

## Hypot<sup>®</sup> Series

| V 1   | 400 400 100 100  | 0 0101  |                                    | <b>D</b>   | Valtana Cattin -  |                                      |
|---|--|---|------------------------------------|--|---|--------------------------------------|
| Voltage<br>-  | 100 – 120 VAC / 200 – 240 VAC ± 10% Auto Range   |   |                                    |  | Voltage Setting   | Res                                  |
| Frequency   | 50/60 Hz ± 5%  |   |                                    | A  |   |                                      |
| Fuse  | 3.15 A, Fast Blow 2  | 50 VAC  | Resistance Display                 |  |   |                                      |
| DIELECTRIC WIT                                      | HSTAND TEST M  | ODE   |                                    |  |   | Resolutio                            |
| Output Rating                                       | 3805/3855/ 5 kVA @ 20 mAAC<br>3865/3870 6 kVA @ 7.5 mADC (3865/3870 only)                              |   |                                    |  |   | MΩ<br>0.001<br>0.01<br>2<br>0.1<br>2 |
|   | 3805/3855/<br>3865/3870  | AC  | Range:<br>Resolution:              | 0.00 – 20.00 mA<br>0.01 mA   |   | 1 2<br>A                             |
|   |  | DC  | Range:<br>Resolution:<br>Accuracy: | 0 – 7500 μA<br>1 μA<br>AC and DC ± (2% of setting<br>+ 2 counts)     |   | At tes<br>± (2%<br>± (5%             |
| Minimum Limit                                       | 3805/3855/<br>3865/3870  | AC  | Range:<br>Resolution:              | 0.000 – 9.999 mA<br>0.001 mA   | HI & LO-Limit   | ± (159                               |
|   |  | DC  | Range:<br>Resolution:<br>Accuracy: | 0.0 – 999.9 µA<br>0.1µA<br>AC and DC ± (2% of setting<br>+ 2 counts) |   | Res                                  |
| Arc Detection                                       | Range: 1 – 9 (9 is most sensitive)   |   |                                    |  |   | Res                                  |
| Ground Fault  | GFI Trip Current: 450 μA max (AC or DC), Fixed   |   |                                    |  |   | A                                    |
| Interrupt   | HV Shut Down Speed: < 1 msec   |   |                                    |  |   |                                      |
| Current Display                                     | 3805/3855/<br>3865/3870  | AC  | Range 1:<br>Range 2:               | 0.000 – 4.000 mA<br>3.50 – 20.00 mA                                  | Charge-LO   |                                      |
|   |  | DC  | Range 1:<br>Range 2:<br>Range 3:   | 0.0 μA – 400.0 μA<br>0.350 mA – 4.000 mA<br>3.50 mA – 7.50 mA        | Ramp Timer  |                                      |
|   |  |   | Accuracy:                          | All Ranges ± (2% of reading  | Delay Timer   |                                      |
|   |  |   | , lecuracy.                        | + 2 counts)  | Dwell Timer   |                                      |
| DC Output Ripple                                    | ≤ 5% Ripple rms at   | 6 kVDC  | GENERAL SPECIFICA                  | TIONS  |   |                                      |
| RAMP-HI<br>Selectable                               | Range: 0.0 – 7,500   | µA, User  | Remote<br>Control and Signal I/O   | Inputs: T<br>Outputs:  |   |                                      |
| Charge-LO   | 0 – 350 µA DC or A   | uto Set   | Vmax                               | Displays<br>a breakde  |   |                                      |
| Discharge Time                                      | < 50 msec for no lo<br>The maximum cap   | acitive lo  | lmax                               | Displays   |   |                                      |
|   |  | 0.08µF <<br>0.04µF <<br>0.015uF   | Memories                           | 50 steps<br>1500 test  |   |                                      |
| AC Voltage  | Sine Wave, Crest Factor = 1.3 – 1.5  |   |                                    |  | Interface   | USB stan                             |
| Waveform/<br>Frequency                              | Range:   | 50 or 60 Hz, User Selectable  |                                    |  | Language  | English, 1<br>Portugue               |
| Dwell Timer   | Range:   | AC 0, 0.2-999.9 sec (0=Continuous)<br>DC 0, 0.4-999.9 sec (0=Continuous)                    |                                    | Security   | Multiple  |                                      |
| Ramp Timer  | Range:   | Ramp-Up: 0.1 – 999.9 sec<br>Ramp-Down: AC 0.0 – 999.9 sec<br>DC 0, 1.0 – 999.9 sec, (0=OFF) |                                    |  | Dimensions<br>(W x H x D)   | 380<br>38                            |
| Ground Continuity<br>Current                        | DC 0.1A ± 0.01 A, f  | Weight  | 380<br>38                          |  |   |                                      |
| Ground Continuity<br>Maximum Limit<br>Minimum Limit | Range: $0.00 - 1.50 \Omega$ Resolution: $0.01 \Omega$ Accuracy: $\pm$ (3% of setting + $0.02 \Omega$ ) |   |                                    |  | Why We Use Counts<br>Associated Research publishes some<br>a better indication of the instrument's  |                                      |
| Ground Continuity<br>Auto Offset                    | Range:<br>Resolution:<br>Accuracy:   | 0.00 – 0<br>0.01 Ω  |                                    |  | a better indication of the instrument s<br>to the lowest resolution of the display<br>resolution for voltage is 1V then 2 cou<br>Specifications subject to change wit |                                      |

| INSULATION RESISTA               | NCE TEST MOD   | E   |  |  |  |
|----------------------------------|--|---|--|--|--|
| Voltage Setting                  | Range:<br>Resolution:<br>Accuracy:   | 30 – 1,000 VDC<br>1 V<br>± (1.5% of setting + 5 V)  |  |  |  |
| Resistance Display               | Range:   | 1 – 50,000 ΜΩ   |  |  |  |
|                                  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   |   |  |  |  |
|                                  | Accuracy: $\pm$ (8% of reading+2 counts) at test voltage<br>30 – 499 V and 1.00–999.9 M $\Omega$   |   |  |  |  |
|                                  | At test voltage 500-1000 V<br>± (2% of reading + 2 counts) for 1.00 – 999.9 MΩ<br>± (5% of reading + 2 counts) for 1000 – 9999 MΩ<br>± (15% of reading + 2 counts) for 10000 – 50,000 MΩ |   |  |  |  |
| HI & LO-Limit                    | Range:<br>Resolution:  | 0, 1.00 – 99.99 MΩ (0=OFF, HI-Limit ONLY)<br>0.01 MΩ<br>1000-50000<br>1 MΩ  |  |  |  |
|                                  | Range:<br>Resolution:  | 100.0 – 999.9 MΩ<br>0.1 MΩ  |  |  |  |
|                                  | Accuracy:  | At test voltage 500-1000 V<br>$\pm$ (2% of setting + 2 counts) for 1.00 – 999.9 M $\Omega$<br>$\pm$ (5% of setting + 2 counts) for 1000 – 9999 M $\Omega$<br>$\pm$ (15% of setting + 2 counts) for 10000 – 50,000<br>M $\Omega$ |  |  |  |
| Charge-LO                        | Range:   | 0.000 – 3.500 µA DC or Auto Set   |  |  |  |
| Ramp Timer                       | Range:   | Ramp-Up: 0.1 – 999.9 sec<br>Ramp-Down: 0, 1.0 – 999.9 sec, (0=OFF)  |  |  |  |
| Delay Timer                      | Range:   | 0.5 – 999.9 sec (0=OFF)   |  |  |  |
| Dwell Timer                      | Range:   | 0, 0.5 – 999.9 sec (0=continuous)   |  |  |  |
| GENERAL SPECIFICA                | TIONS  |   |  |  |  |
| Remote<br>Control and Signal I/O |  | r, Hardware Interlock, File Recall<br>I, Test-in-Process, Reset-Out, Start-Out  |  |  |  |
| Vmax                             | Displays the maximum voltage value recorded during a breakdown   |   |  |  |  |
| lmax                             | Displays the maximum leakage current value read during a test  |   |  |  |  |
| Memories                         | 50 steps<br>1500 test results  |   |  |  |  |
| Interface                        | USB standard   |   |  |  |  |
| Language                         | English, Traditional Chinese, Simplified Chinese, Turkish,<br>Portuguese, Spanish, German, French  |   |  |  |  |
| Security                         | Multiple user setups with ID and password  |   |  |  |  |
| Dimensions<br>(W x H x D)        | 3805/3855/<br>3865/3870  | 8.5" x 3.5" x 11.9"<br>(215 mm x 88.1 mm x 300 mm)  |  |  |  |
| Weight                           | 3805/3855/<br>3865/3870  | 12 lbs (5.46 kgs)   |  |  |  |

e specifications using "counts" which allows us to provide t's capabilities across measurement ranges. A count refers ay for a given measurement range. For example, if the punts = 2 V.

ithout notice.