

SPECIFICATIONS

AC Withstand			
	Range	Resolution	Accuracy
Output Voltage, V	0-5000@20mA	10	±(2.0% of setting + 5 V)
Output Frequency	50/60Hz±100ppm		
Output Regulation	±1.0% of setting + 5V, from no load to full load		
Hi-Limit, Current, mA	0 - 20.00	0.01	±(2.0% of setting + 2 counts)
Lo Limit, Current, mA	0 - 9.999	0.001	±(2.0% of setting + 2 counts)
Dwell Up Time, sec	0, 0.3 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Ramp Up Time, sec	0.1 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Ramp Down time, sec	0.0 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Arc Detection	1 - 9		
DC Withstand (7140, 7142 only)			
Output Voltage, V	0-6000@7500µA	10	±(2.0% of setting + 5 V)
Hi-Limit, Current, µA	0 - 7500	1	±(2.0% of setting + 2 counts)
Lo Limit, Current, µA	0 - 999.9	0.1	±(2.0% of setting + 2 counts)
Dwell Time, sec	0, 0.4 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Ramp Up Time, sec	0.1 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Ramp Down time, sec	0, 1.0 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Insulation Resistance (7132, 7142 only)			
Output Voltage, DC, V	30 - 1000	10	±(2.0%of setting + 5 V)
Hi-Limit, Resistance, MΩ	0 - 9999	1	Same as resistance display
Lo Limit, Resistance, MΩ	1 - 9999	1	Same as resistance display
Ramp Up Time, sec	0.1 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Ramp Down time, sec	0, 1.0 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Delay Time, sec	0, 0.5 - 999.9	0.1	±(0.1% of reading + 0.05 sec)
Measurement			
Voltage, KV	0.00 - 6.00	0.01	±(2% of setting + 0.01 KV)
Voltage, V	30 - 1000	0.01	±(2% of setting + 0.005 KV)
AC Current, mA	0.000 - 3.500	0.001	±(2% of setting + 2 counts)
	3.00 - 20.00	0.01	
DC Current, µA	0.0 - 350.0	0.1	±(2% of setting + 2 counts)
DC Current, mA	0.0 - 350.0	0.001	±(2% of setting + 2 counts)
	3.00 - 7.50	0.01	
Resistance, MΩ	1 - 9999	1.000~9.999/0.001 10.00~99.99/0.01 100.0~999.9/0.1 1000~9999/1	±2% of setting+2 counts @ DC 500V/1-1000MΩ ±5% of setting+2 counts @ DC 500V/1000-9999MΩ ±8% of setting+2 counts @ DC 30-500V/1-1000MΩ
General			
Memory	Memory 10, Steps 3		
PLC Remote Control	Test, Reset, Memory 1, 2, 3, Interlock		
PLC Signal Output	Pass, Fail, Processing, Reset		
Safety	Built-in Smart GFI Circuit		
LCD Display	128 x 64 graphic LCD		
Key Lock	To prevent unauthorized alteration of the test parameters		
Calibration	Built-in software and external calibrated meters		
Verification	AC, DC and IR		
Dimension and Weight	215(W) x 89(H) x 370(D)mm, 10 Kg.		
Input Voltage	115/230 Vac ±15%, 50/60 Hz ±5%		
Environment	0 - 40°c, RH 0 - 80%		

Specification is subjected to change without notice

ORDERING INFORMATION

Model	Function
7130	AC Withstand Voltage Tester
7132	AC Withstand Voltage / Insulation Tester
7140	AC / DC Withstand Voltage Tester
7142	AC / DC Withstand Voltage / Insulation Tester



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DIGITAL HIPOT/INSULATION TESTERS

7100 SERIES - DIGITAL HIPOT TESTERS



Typical safety testers may face the problem of output accuracy which is easily influenced by the variation of current flow and load condition. Users often find it difficult to control the instrument output voltage. Exttech develops brand new 7100 series HIPOT testers have incorporated many new innovations and requirements from customers. Patented SMART GFI function adds one more level of protection for the operator. Large graphic LCD display provides unambiguous view of the test setup and results. User-friendly interface software also provides user easy to operate the instrument. With this instrument, safety testing is made safer and more reliable than ever before.



Line/Load Regulation

Maintain output voltage within the 1% of setting,even if the Line Voltage or Load VARIES.This is to ensure that the output voltage remain constant and within safety agencies requirement.

Low Distortion

Implementing Linear Amplifying Transistors,with Total Harmonic Distortion (THD) below 1%, compatible with safety compliance standards by which crest factors are within range of 1.3-1.5.

Electronic Ramping Up and Down

Provides a gradual and timed method to increase or decrease output voltage to the UUT, minimizing any damage from quick high voltage changes to sensitive UUT.

Three Common Safety Tests(Programable)

ACW : 0 ~ 5KVAC / 0 ~ 20mA DCW : 0 ~ 6KVDC / 0 ~ 7.5mA IR : 1MΩ ~ 9999MΩ
3 in 1 functions that meet electrical safety standards.

Graphic LCD and Soft keys

128x64 LCD with soft keys providing three test results in single screen makes test setup easy to understand and test results easy to read,no more abbreviated words.

Storage Up to 10 memories

Each memory can setup up to 3 steps, which can be configured to perform any of the safety tests for any particular UUTs.These tests can be linked and run in any sequence.

Smart GFI Circuit (Pat : #169000)

Unique safety feature detects excessive leakage current and down the high voltage immediately in case where an operator comes into contact with high voltage circuit to prevent electric shock.Thus providing maximum operator protection during testing.

Tests Functioning Verification

When Power On the international, it will prompt the user to validate each test functions whether they are functioning correctly.Capable to move to verification mode once turning on the tester to validate safety tests are functioning easily and correctly before using the tester for actual production testing.

Date and TIME Setting

Able to set data and time. Calibration ALERT: This feature automatically alerts the user when the international is due for annual calibration.

Front Panel Lockout

Front panel lockout is to limit access to the setup screens and prevent unauthorized alteration on test parameters.

Remote Interlock

As the control loop of the remote connector is open,the tester is unable to start test.To increase operator safety,use protective cover with a limit switch to start test.

DC Hipot Force Discharge

Discharge the voltage of the HV terminal automatically in less than 0.2sec to protect the operator from electrical shock.

Front Panel Software Calibration Control

This instrument is calibrated through the front panel. This instrument can be completely calibrated without removing the instrument cover and exposing the technician to hazardous voltages.

2U Half Rack, Compact Size (215×89×370 mm), and Weight (10 Kg)

Can be mounted with 7315 Ground Bond tester that is also 2U 1/2 rack to a 19" rack mount instrument for integrated test station,

Capable Of Linking Up To 100 Testers

One unit can be assigned as master controller and the rest are slaves.Each of the individual test results will be displayed individually.

TÜV-GS Mark Approved, (No : S3-50005124)

With this certification prove that this tester quality achieve and meet international product standard and is recognized worldwide.

Six Types of FAIL Displayed Messages

Test Fail Messages Analysis	
Messages	Descriptions
ARC Fail	Inconsistent leakage current
BREAK DOWN	Insulation failure or flashover
SHORT	Short circuit detected
Max Lim	Leakage current exceeds above high limit
Min Lim	Leakage current falls below low limit
GND Fail	User comes into contact with high voltage circuit.

