

T-3630

HV Insulation Resistance Tester

The model T-3630 High Voltage Insulation Resistance Tester also known as megohmmeter, high voltage insulation resistance tester, etc., for the insulation resistance test. The instrument has a large LCD screen gray backlight display, data storage, data access, alarm, automatic shutdown and other functions. At the same time, it also has the function of measuring DC voltage, AC voltage, absorption ratio and polarization index of DC voltage. The electrical test equipment is beautiful and upscale, has a wide range, high resolution, convenient operation, easy to carry, accurate, reliable, stable performance, strong anti-interference ability.



Moreover, it has a shockproof, dustproof, moisture-proof structure and is a commonly used and indispensable instrument for telecommunications, electricity, meteorology, computer rooms, oil fields, electromechanical installation and maintenance, and industrial enterprises that use electricity as industrial power or energy. It is suitable for measuring the resistance value of various insulating materials and the insulation resistance of transformers, motors, cables and electrical equipment.

At the same time, it can output a variety of different voltage levels with the step-adjusting voltage function (for example, 15KV models can generate 12KV levels, which can be used more widely). T-3630 High Voltage Insulation Resistance Tester consists of large scale integrated circuits. The output power of the meter is large, and the output voltage level is a lot (with 6 voltage levels). DC voltage measurement range is from 0 to 1000V, AC voltage measurement range is from 0 to 750V. DC current measurement range is from 100pA to 6mA. Capacitance measurement range is from 10nF to 50uF.

Features

- 1. Accuracy 3%
- 2. 0-50TΩ
- 3. DC voltage 0-1000V
- 4. AC voltage 0-750V
- 5. 250V, 500V, 1KV, 2.5KV, 5kV, 10KV, 15KV
- 6. 10nf-50uf Capacitance measurement
- 7. 100pA-6mA DC current measurement

Functions

- 1. Insulation resistance test
- 2. Voltage test
- 3. DC current test
- 4. Capacitance test
- 5. User friendly menu guided operation
- 6. With rechargeable battery
- 7. With PC software



Parameters

Accuracy 3% Power Supply 12V rechargeable battery Rated voltage range 100v, 250v, 500V, 1000V, 2500V, 5000V, 10KV, 15KV Insulation resistance range 0.01MΩ ~50TΩ Resolution 0.01MΩ DC Test Voltage Range 0~1000V; Resolution: 0.1V AC Test Voltage Range 0~750V; Resolution: 0.1V DC Current 0.1nA~6mA; Resolution: 0.1nA Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current 26mA Absorption Ratio and Polarization Index Measureme tes Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IPS4 pollution grade 2, CAT III 300V Mechanical parameters 2.75 Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75	Electrical parameters		
Accuracy Power Supply 12V rechargeable battery Rated voltage range 100v, 250v, 500v, 1000v, 2500v, 5000v, 10KV, 15KV Insulation resistance range 0.01MΩ —50TΩ Resolution DC Test Voltage Range 0~100v; Resolution: 0.1V AC Test Voltage Range 0~750V; Resolution: 0.1V DC Current 0.1nA —6mA; Resolution: 0.1nA Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current 26mA Absorption Ratio and Polarization Index Measureme Mes Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 300 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50H2 Imin (between circuit and housing) Standard iEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IPS4 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2,75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Function	Insulation resistance test, voltage test, DC current test,	
Power Supply 12V rechargeable battery Rated voltage range 100v, 250v, 500v, 1000v, 2500v, 5000v, 10KV, 15KV Insulation resistance range 0.01MΩ~50TΩ Resolution 0.01MΩ DC Test Voltage Range 0~1000v; Resolution: 0.1v AC Test Voltage Range 0~750V; Resolution: 0.1nA DC Current 0.1nA~6mA; Resolution: 0.1nA Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current 26mA Absorption Ratio and Polarization Index Measureme Mes Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42r Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz Imin (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IPS4 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Environmental conditions <td></td> <td>capacitance test</td>		capacitance test	
Rated voltage range 100v, 250V, 500V, 1000V, 2500V, 5000V, 10KV, 15KV Insulation resistance range 0.01MΩ~50TΩ Resolution 0.01MΩ DC Test Voltage Range 0~1000V; Resolution: 0.1V AC Test Voltage Range 0~750V; Resolution: 0.1N DC Current 0.1nA~6mA; Resolution: 0.1nA Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current 26mA Absorption Ratio and Polarization Index Measureme Mes Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42r Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Dimensions (W×D×H) (mm) 240x188x85 Environmental conditions -	Accuracy	3%	
Insulation resistance range Resolution O.01MΩ DC Test Voltage Range O~1000V; Resolution: 0.1V AC Test Voltage Range O~750V; Resolution: 0.1V DC Current O.1nA~6mA; Resolution: 0.1nA Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current Absorption Ratio and Polarization Index Measurement Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage Son GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42 max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Dimensions (W×D×H) (mm) 240x188x85 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Power Supply	12V rechargeable battery	
Resolution 0.01MΩ DC Test Voltage Range 0~1000V; Resolution: 0.1V AC Test Voltage Range 0~750V; Resolution: 0.1N DC Current 0.1nA~6mA; Resolution: 10nF Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current ≥6mA Absorption Ratio and Polarization Index Measureme Mes Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42mAx, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Dimensions (W×D×H) (mm) 240x188x85 Environmental conditions -10°C to +50°C Storage temperature -10°C to 70°C	Rated voltage range	100v, 250V, 500V, 1000V, 2500V, 5000V, 10KV, 15KV	
DC Test Voltage Range O~1000V; Resolution: 0.1V AC Test Voltage Range O~750V; Resolution: 0.1V DC Current 0.1nA~6mA; Resolution: 0.1nA Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current Absorption Ratio and Polarization Index Measureme Mes Backlight Ves LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°Cto +50°C Storage temperature -40°C to 70°C	Insulation resistance range	$0.01 \text{M}\Omega{\sim}50 \text{T}\Omega$	
AC Test Voltage Range 0~750V; Resolution: 0.1V DC Current 0.1nA~6mA; Resolution: 0.1nA Capacitance 10nF~50uF; Resolution: 10nF Output short-circuit Current ≥6mA Absorption Ratio and Polarization Index Measureme Mes Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Resolution	$0.01M\Omega$	
DC Current Capacitance 10nF~50uF; Resolution: 0.1nA Chabsorption Ratio and Polarization Index Measureme Mes Backlight LCD display 108 Port Data Storage Alarm Function Power Consumption Insulation Resistance Max, Measure: 300mA Max(backlight off) Insulation Resistance AC3kV/50Hz 1min (between circuit and housing) Standard EC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	DC Test Voltage Range	$0{\sim}1000$ V; Resolution: 0.1 V	
Capacitance10nF~50uF; Resolution: 10nFOutput short-circuit Current≥6mAAbsorption Ratio and Polarization Index Measureme MesBacklightYesLCD display108mm×65mm, 4-bit LCD display, gray screen backlightCommunicationUSB PortData Storage500 GROUPSAlarm FunctionYesPower ConsumptionStandby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off)Insulation Resistance≥50MΩ (500V between circuit and shell)Withstand voltageAC3kV/50Hz 1min (between circuit and housing)StandardIEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300VMechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	AC Test Voltage Range	$0\sim$ 750V; Resolution: 0.1V	
Output short-circuit Current ≥6mA Absorption Ratio and Polarization Index Measureme Mes Mes Backlight Yes LCD display 108mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42 max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	DC Current	0.1nA~6mA; Resolution: 0.1nA	
Absorption Ratio and Polarization Index Measureme Mes Backlight LCD display LCD display LCD display LOB mm×65mm, 4-bit LCD display, gray screen backlight Communication USB Port Data Storage Soo GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Capacitance	10nF∼50uF; Resolution: 10nF	
BacklightYesLCD display108mm×65mm, 4-bit LCD display, gray screen backlightCommunicationUSB PortData Storage500 GROUPSAlarm FunctionYesPower ConsumptionStandby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off)Insulation Resistance≥50MΩ (500V between circuit and shell)Withstand voltageAC3kV/50Hz 1min (between circuit and housing)StandardIEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300VMechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	Output short-circuit Current	≥6mA	
LCD display108mm×65mm, 4-bit LCD display, gray screen backlightCommunicationUSB PortData Storage500 GROUPSAlarm FunctionYesPower ConsumptionStandby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off)Insulation Resistance≥50MΩ (500V between circuit and shell)Withstand voltageAC3kV/50Hz 1min (between circuit and housing)StandardIEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300VMechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	$\label{prop:section} \textbf{Absorption Ratio and Polarization Index}$	Measureme Mes	
Communication USB Port Data Storage 500 GROUPS Alarm Function Yes Power Consumption Standby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off) Insulation Resistance ≥50MΩ (500V between circuit and shell) Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (WxDxH) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions -10°C to +50°C Storage temperature -40°C to 70°C	Backlight	Yes	
Data Storage500 GROUPSAlarm FunctionYesPower ConsumptionStandby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off)Insulation Resistance≥50MΩ (500V between circuit and shell)Withstand voltageAC3kV/50Hz 1min (between circuit and housing)StandardIEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300VMechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	LCD display	108mm×65mm, 4-bit LCD display, gray screen backlight	
Alarm FunctionYesPower ConsumptionStandby: 30mA Max(backlight off), Turn on backlight: 42m Max, Measure: 300mA Max(backlight off)Insulation Resistance≥50MΩ (500V between circuit and shell)Withstand voltageAC3kV/50Hz 1min (between circuit and housing)StandardIEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300VMechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	Communication	USB Port	
Power ConsumptionStandby: 30mA Max(backlight off), Turn on backlight: 42r Max, Measure: 300mA Max(backlight off)Insulation Resistance≥50MΩ (500V between circuit and shell)Withstand voltageAC3kV/50Hz 1min (between circuit and housing)StandardIEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300VMechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	Data Storage	500 GROUPS	
Max, Measure: 300mA Max(backlight off)Insulation Resistance≥50MΩ (500V between circuit and shell)Withstand voltageAC3kV/50Hz 1min (between circuit and housing)StandardIEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300VMechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	Alarm Function	Yes	
Withstand voltage AC3kV/50Hz 1min (between circuit and housing) Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Power Consumption	Standby: 30mA Max(backlight off), Turn on backlight: 42mA Max, Measure: 300mA Max(backlight off)	
Standard IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54 pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Insulation Resistance	≥50MΩ (500V between circuit and shell)	
pollution grade 2, CAT III 300V Mechanical parameters Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Withstand voltage	AC3kV/50Hz 1min (between circuit and housing)	
Mechanical parametersDimensions (W×D×H) (mm)240x188x85Weight (kg)2.75Environmental conditionsOperating temperature-10°C to +50°CStorage temperature-40°C to 70°C	Standard	IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54),	
Dimensions (W×D×H) (mm) 240x188x85 Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C		pollution grade 2, CAT III 300V	
Weight (kg) 2.75 Environmental conditions Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Mechanical parameters		
Environmental conditions Operating temperature -10°C to +50°C -40°C to 70°C	Dimensions (W×D×H) (mm)	240x188x85	
Operating temperature -10°C to +50°C Storage temperature -40°C to 70°C	Weight (kg)	2.75	
Storage temperature -40°C to 70°C	Environmental conditions		
	Operating temperature	-10°C to +50°C	
	Storage temperature	-40°C to 70°C	
Relative humidity ≤90%RH	Relative humidity	≤90%RH	



Selection guide

Model Selection				
MODEL	T-3630A	T-3630B	T-3630C	
Max Output Voltage	5KV	10KV	15KV	
Resistance Range	10ΤΩ	35ΤΩ	50ΤΩ	