

KUST Elektronik

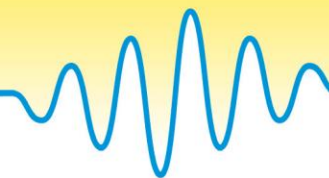
ST4010, ST4024 und ST 4048

AC and DC Insulation Withstand Voltage Tester



- Series AC and DC voltage insulation tester is a high performance tester with a new technology. The unique current protection function and high precision output voltage can make the instrument safe. At the same time, more accurate and faster testing can be provided. Maximum 8-channel withstand voltage output, can meet the full range of customer requirements
- ST40X0 series withstand voltage tester is mainly used to detect the safety performance of instruments, equipment and components





Performance characteristics

- ST4010 Single channel high voltage tester
- ST 4024 4-channel high-voltage scanning tester
- ST4048 8-channel high-voltage scanning tester
- Test function AC/DC/IR
- Display: large LCD display, display resolution is 240×64
- AC voltage output: 50V - 5kV, AC current: 30mA
DC voltage output: 50V - 6KV, DC current: 10mA
- Wide insulation resistance measurement range: 1MΩ - 50GΩ
- Ground connection test GC (optional function)
- Current upper and lower limits setting of programmable leakage current
- IR, DC test discharge function rapidly
- Store data with 99steps
- Good electric shock protection function : When the ground leakage current is greater than 0.5mA, earth fault protection function is triggered rapidly, effective protection of external leakage to avoid accidents
- Standard RS-232communication interface, optional GPIB

Brief introduction

- Series AC and DC voltage insulation tester is a high performance tester with a new technology. The unique current protection function and high precision output voltage can make the instrument safe. At the same time, more accurate and faster testing can be provided. Maximum 8-channel withstand voltage output, can meet the full range of customer requirements.

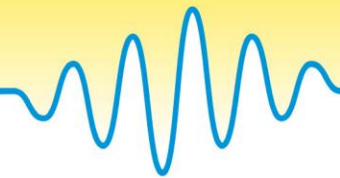
ST40X0 series withstand voltage tester is mainly used to detect the safety performance of instruments, equipment and components.

General Specifications

Operating temperature & humidity, power requirements	0°C—40°C, 90% RH 198V—242V
frequency	47.5Hz—63Hz
power loss	≤ 150VA
volume(W×H×D)	330mm×110mm×420mm
weight	about 20kg

Instrument accessories

high voltage test line (each channel with a line)
a ground line
A power cable



Technical specifications

Type		ST4010	ST4024	ST4048	
Function		ACV/DCV/IR	ACV/DCV/IR/SCAN		
Output channel		Single channel	4 channel	8 channel	
Output voltage					
AC	output	0.05 ~ 5kV			
	measurement accuracy	1% ± 5V			
	display accuracy	2V			
	frequency	50Hz / 60Hz			
	Power	maxium 150VA			
DC	Output	0.05 ~ 6kV			
	measurement accuracy	1% ± 5V			
	display accuracy	2V			
	power	Maximum 60 VA			
IR	output	DC 0.05 ~ 1kV			
	measurement accuracy	1.5% ± 5V			
	display accuracy	2V			
Output current					
AC	Output	30 mA			
	measurement accuracy	1% ± 5counts (5%±20 counts for real current)			
	display accuracy	1µA			
	Frequency	50Hz / 60Hz			
DC	Output	10mA, display accuracy: 0.1µA			
	measurement accuracy	1% ± 5counts (5%±20 counts for real current)			
	display accuracy	0.1 µA			
Insulation resistance					
IR	voltage	DC range: 0.05 - 1kV	voltage accuracy: 1.5% ± 5V		
	Measurement range	1MΩ-50GΩ	1MΩ-10GΩ		
	display accuracy	0.1 MΩ			
	measurement accuracy	≥500V: 1MΩ-1GΩ :±5%±10 counts			
		1GΩ-10GΩ :±10%±10 counts,			
10GΩ-50GΩ :±15%±10 counts					
≤500V: 0.1MΩ-1GΩ:±10%±10 counts					
Arc test					
Setting method		programmable			
the range of cutting off current		AC:1mA-15mA, DC:1mA-10mA			
detection time		10µs approx			
Protection function					
Fast cut off time		0.4ms after NG happer			
Fast discharge time		0.2 sec			
Ground failure starting current (GFI)		0.5mA±0.25mA AC, Close			
Judgement of bad product					
judgement display		good product: short tone, display green light bad product: long tone, display red light			
data retention storage		the last set of test data			
		99 steps or 99groups, the sum does not exceed 500 steps			