

The Delta logo consists of the word "Delta" in a teal, sans-serif font. The letter "i" is stylized with three small dots above it, resembling a signal or data points.

DELTA TECHNOLOGY (CHONGQING) CO., LTD.

The Delta logo, identical to the one in the top right corner, featuring the word "Delta" in teal with three dots above the "i".

DELTA TECHNOLOGY (CHONGQING) CO., LTD.

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»» COMPANY PROFILE

Delta Technology (Chongqing) Co., Ltd.

is a high-tech enterprise focusing on R&D, production and sales of Electrical Testing Instrument and Fire Resistance Testing Instrument. Since safety is important to the electrical, construction and transportation industries, thus, Delta Technology is aim to help users testing the safety of transformers, high-voltage switches, cables, building materials, transportation materials, etc.

Since its establishment, Delta Technology has always adhered to the principles of "quality assurance and service priority", through years' development, our products sell well at home and abroad.

With the best products, best services and best reputation, Delta Technology is your reliable partner in the testing instrument!



CATALOGUE



Electrical Testing Instrument

[TTR-I] Transformer Turns Ratio Meter
[TTR-Z] Z Type Transformer Turns Ratio Meter
[WRT] Transformer Winding DC Resistance Tester
[TDT] Transformer Tan Delta / Power Factor Tester
[KFZ] Transformer Capacity, Load and No Load Loss Tester
[SFRA] Transformer Sweep Frequency Response Analyzer
[OLTC] Transformer On Load Tap Changer Tester
[ZJA] Transformer Oil Purifier
[BDV-II] 100kV Transformer Oil BDV Tester
[BDV-A] 80kV / 100kV Transformer Oil BDV Tester
[DLT] Transformer Oil Dielectric Loss Tester
[KF] Transformer Oil Water Content Tester
[CPT-I] CT PT Tester
[CPT-III] CT PT Analyzer

[PRT] Secondary Current Injection Test Set
[CBA] Circuit Breaker Analyzer
[CRT] Circuit Breaker Contact Resistance Tester
[ZKD] Circuit Breaker Vacuum Degree Tester
[SFP] SF6 Purity Tester
[SFA] Series SF6 Multi-parameters Analyzer
[DDP-P] Portable Partial Discharge Detector
[CFL-I] Cable Fault Locator
[VLF] Very Low Frequency Hipot Tester
[SYB] Oil Type AC DC Hipot Tester
[SLO] Primary Current Injection Tester
[ZGF] DC High Voltage Generator



Fire Resistance Testing Instrument

[SCV] Single Cable Vertical Flame Tester
[BCV] Bunched Cable Vertical Flame Tester
[CCT] Cone Calorimeter
[SDB] NBS Smoke Density Chamber
[3MC] Electric Cable Smoke Density Tester
[CRA] IEC 60754 Cable Halogen Acid Gas Tester
[LOI] Electro-chemistry Limited Oxygen Index Tester
[LOI-A] Automatic Limited Oxygen Index Analyzer
[SBI] Single Burning Item
[FRP] Flooring Radiant Panel Tester
[SIT] ISO 11925-2 Single Flame Source Tester
[NCF] ISO 1182 Non-combustibility Tester
[XP-2] Building Material Smoke Density Tester

[CVT] ISO1716 Calorific Value Tester
[UL94] Flame Chamber
[IMO] ISO5658-2 Flame Spread Tester
[BS476-6] Building Material Fire Propagation Tester
[BS476-7] Building Material Flame Surface Spread Tester
[NFT] IEC60695-2-2 Needle Flame Tester
[GWT] IEC 60695 Glow Wire Tester



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About Electrical Testing

Transformer Turns Ratio Meter

TTR-I

TTR-I is designed according to IEC76-1 and IEC60044 to measure the turns ratio of single phase or three phase transformer.



Z Type Transformer Turns Ratio Meter

TTR-Z

TTR-Z is specially designed for testing Z type transformer and other transformer whose zero-load current is relatively high.



Functions

/	CT	PT	single phase power transformer	three phase power transformer
Turns ratio	Yes	Yes	Yes	Yes
Phase angle	Yes	Yes	Yes	Yes
Polarity	Yes	Yes	Yes	Yes
Vector group	No	No	/	Yes

Main parameters

Parameters	TTR-I	TTR-Z
Ratio test range	1-10000	
Group test range	1-12	
Accuracy	1-2000: $\pm 0.2\%RDG$	2000-10000: $\pm 0.5\%RDG$
Power supply	AC220V $\pm 10\%$, 50Hz/60Hz	
Dimension	400mm*350mm*200 mm	325mm*278mm*188mm
Net Weight	7kg	7Kg

Transformer Winding DC Resistance Tester

WRT

WRT Series transformer winding DC resistance tester (micro-ohmmeter) is a high precision instrument for testing DC resistance of transformer winding.



Main parameters

Parameters	WRT-5	WRT-10	WRT-20	WRT-40	WRT-20S	
					Test current	single phase: 1A, 5A, 10A, 20A, 40A three phase: 1A, 5A, 10A, 20A
Range	1 μ Ω - 20kΩ	1 μ Ω - 20kΩ	1 μ Ω - 10kΩ	1 μ Ω - 10kΩ	single phase: 10mΩ-20Q(1A) 1 mΩ-4Q(5A) 1 mΩ-2Q(10A) 1 mΩ-1Q(20A) 1 mΩ-0.5Q(40A)	three phase: 10 mΩ-5Q (1A,each phase) 1 mΩ-1Q (5A,each phase) 1 mΩ-0.5Q (10A,each phase) 1 mΩ-0.3Q (20A,each phase)
Resolution	1 μ Ω					
Max. error	0.2%RDG+2D					
Voltage output	20V					
Resolution	1 μ Ω					
Power supply	AC220V ± 10%, 50Hz/60Hz					

Transformer Tan Delta/Power Factor Tester

TDT

TDT is used to measure electrical loss tangent and capacitance of all kinds of high voltage electrical equipment.



Main parameters

Output voltage	0.5KV - 10KV / 0.1KV, 2% precision
Max - output current	200mA
Output capacity	2000VA
Self-excited power	AC 0V - 50V/15A, Automatic double frequency 45Hz/55Hz, 47.5Hz/52.5Hz 55Hz/65Hz, 57.5Hz/62.5Hz
Resolving power	tgδ: 0.001% Cx: 0.001pF
Measurement range	Tgδ: Unlimited Cx: 15pF<Cx<300nF 10KV: Cx<60nF 5KV: Cx<150nF 1KV: Cx<300nF CVT test: Cx<300nF
CVT range	10 - 10000, accuracy: 0.1%
Dimension	350mm*270mm*270mm
Weight	28kg
Power supply	AC 220V±10%, 50Hz

Transformer Capacity, Load and No Load Loss Tester

KFZ

KFZ can measure following parameters of transformer: capacity, transformer type, no-load current, no-load loss, short circuit (load) loss and impedance voltage.



Main parameters

Capacity test range	10KV Dry type transformer	30kVA-3150kVA
	10KV Oil immersed transformer	30kVA-3150kVA
	35KV Oil immersed transformer	50kVA-31500kVA
	20KV Dry type transformer	50kVA-2500kVA
	35KV Dry type transformer	50kVA-2000kVA
AC voltage	Range: 10-650V	Accuracy: 0.2%±0.001V
AC Current	Range: 0.5-60A	Accuracy: 0.2%±0.001A
Frequency	Range: 45Hz-65Hz	Accuracy: 0.2%±0.001Hz
Dimension	400mm*300mm*220mm	
Net weight	8kg	
Power supply	AC 220V±10%, 50Hz, 60Hz	

Transformer Sweep Frequency Response Analyzer

SFRA

SFRA is used to evaluate the core, winding and clamping structures of power transformers, by measuring their electrical transfer functions over a wide frequency range.



Main Features

Adopts advanced technical of dds.

Adopts high speed and advanced microprocessor.

Adopts double channels of ad chip of 16 bits.

With seven inch lod touch screen.

With build-in thermal printer.

With pc software, with which we can operate, analyze data, Upload data and generate word document.

It can store 40 groups of data and also can be saved by usb flash disk.

Transformer On Load Tap Changer Tester

OLTC

OLTC can record switch operation waveform in overall process. It can test various parameters such as transition waveform, transition time, transition resistance and three phase synchronization.



Main Functions

Test transformers of type Y0, Y, Δ and display resistance value directly.

Automatically analyze waveform fault and mark the fault.

Automatically adjust resistance value and time range according to sampling data.

Transformer type Δ is able to display to synchronization status of three phase.

Be able to test with winding or without winding.

Continuous test to save time of power off.

It can store 1000 groups of data and also can be saved by USB flash disk.

Transformer Oil Purifier

ZJA

ZJA Series Oil Purifier is professional to purify transformer oil, it can efficiently remove water, gases, acid, particles, etc. from used transformer oil.



Main parameters

Parameters	Unit	ZJA1.8KY	ZJA3KY	ZJA6KY	ZJA9KY	ZJA12KY	ZJA18KY
Flow Rate	L/H	1800	3000	6000	9000	12000	18000
Working Vacuity	Pa	< 80					
Working Pressure	Mpa	< 0.5					
Temperature Range	°C	45-65					
Power Supply		3-Phase 4-Wire 50Hz 380V or as request					
Total Power	KW	16	36	70	100	150	200
Inlet/Outlet Diameter	mm	20/20	25/25	32/32	40/40	50/50	65/65
Length	mm	1600	1800	2200	2500	2800	3450
Width	mm	1250	1450	1600	1950	2150	2600
Height	mm	2000	2200	2450	2700	3000	3000
Weight	Kg	500	700	1460	1800	2400	4000

100kV Transformer Oil BDV Tester

BDV-II

BDV-II has eight kinds of test modes for use: IEC156, IS6792, Bs5874, ASTM D1816, ASTM D877, proof test, 5 minutes standard test and manual test.



80kV/100kV Transformer Oil BDV Tester

BDV-A

BDV-A has the same test modes as BDV-II. It can also detect temperature of transformer oil to reduce the effect of oil temperature to test result.



Transformer Oil Dielectric Loss Tester

DLT

DLT is applied to measure dielectric loss angle and volume resistivity of insulating oil.



Transformer Oil Water Content Tester

BDV-A

It adopts Karl Fischer Coulometric method to accurately test trace water content in transformer oil.



Main parameters

Parameters	BDV-II	BDV-A
Output voltage	AC 0V - 100KV	AC 0V - 80KV or AC 0V - 100KV
Rate of voltage rise	0.5kv/±5%, 2kv/±5%, 3kv/±5%, 5kv/±5%	
Max. test times setting for user-defined mode	9	
Stir time setting for user-defined mode	0-999s	
Waiting time setting for user-defined mode	0-999s	
Test error	3%RDG+0.3%FS	
Temperature measurement range	/	0°C to 70°C
Max. storage capacity	100 groups of test data	
Power supply	AC220V±10%, 50Hz/60Hz	
Size	620mm*430mm*330mm	550mm*500mm*580mm
Weight	41kg	38kg

Main Parameters

It is integrated by oil cup, temperature controller, temperature sensor, test bridge for dielectric loss, AC trial electrical source, standard capacitor, high resistance meter and DC high voltage power etc.

Measurement Range	tgδ: Without Limit, Cx: 15PF-300PF, Rx: 10M-10T.
Dimension	450mm * 310mm * 360mm.
Net Weight	21kg

Main Parameters

Measuring range	3ug-200mg water
Water content range	3ppm-100%
Resolution	0.01ug water
Accuracy	10ug-1mg water, ± 0.2%; >1mg water, < ± 0.3%
Electrolysis speed	Max 2.4 mg/min
Electrolytic current	0-430mA
Dimension	320mm*240mm*180mm
Net weight	6kg

CT PT Tester

CPT-I

CPT-I can finish CT or PT transformation ratio test, CT or PT polarity test, volt-ampere feature curve drawing and CT error drawing.



CT PT Analyzer

CPT-III

CPT-III CT PT Analyzer is used to measure all kinds of current transformer and voltage transformer. It is one of the most advanced CT PT Analyzer in China.



Main parameters

Parameters	CPT-I	CPT-III
Test object	Power Transformer, CT, PT	Power Transformer, CT, PT
Test standard	IEC60044	IEC60044-1/2/5/6
Current measurement	0-5A	0-10A
Voltage measurement	0-2000V	0-200V
Turns ratio measurement	1-30000	1-30000
Voltage output	0-2900V	0-125V AC
Current output	0-5A	0.001-5A
Power output	3kVA	300VA
Dimension	450mm*34mm*300mm	490mm*360mm*150mm
Weight	43kg	15kg

Secondary Current Injection Test Set

PRT

Secondary current injection test sets are used for testing protection relay, there are 3 models for choice.

Parameters

PRT-I

PRT-PC3

PRT-PC6



Relay type it test	single phase relay	single phase and three phase relay	single phase, three phase and six phase relay
AC Setting range	0-10A, 0-100A	1 phase: 0-120A; 3 phase: 3*(0-40A)	1 phase: 0-180A; 3 phase: 3*(0-60A); 6 phase: 6*(0-30A)
DC Setting range	0-10A	1 phase: 0-30A; 3 phase: 3*(0-10A)	1 phase: 0-60A; 3 phase: 3*(0-20A); 6 phase: 6*(0-10A)
AC output power	1000VA	1 phase: 420VA; 3 phase: 3*300VA/W	1 phase: 1080VA; 3 phase: 3*400VA/W; 6 phase: 6*260VA/W
DC output power	80VA	1 phase: 80VA	1 phase: 780VA; 3 phase: 3*320VA/W; 6 phase: 6*180VA/W
AC Setting range	0-380V	3*(0-120V) or 0-240V	6*(0-120V) or 0-240V
DC Setting range	0-350V	3*(0-160V) or 0-320V	6*(0-160V) or 0-320V
AC output power	400VA	1 phase: 140VA; 3 phase: 3*80VA/W	3 phase: 3*140VA; 6 phase: 6*70VA
DC output power	960VA	1 phase: 140VA; 3 phase: 3*70VA/W	3 phase: 3*160VA; 6 phase: 6*80VA
Switch parameters input	1 channel	7 channels	10 channels
Switch parameters output	1 channel	2 channels	8 channels
Time measurement	1ms-9999s / 1ms	0.1ms-9999s/0.1ms	0.1ms-9999s / 0.1ms

Circuit Breaker Analyzer

CBA

CBA series are used for high voltage switches testing, there are three models for choice.

Parameters

CBA-I

CBA-II

CBA-III



Parameters	CBA-I	CBA-II	CBA-III
Time measurement	6000ms, resolution 0.1ms	6000ms, resolution 0.1ms	400ms, resolution 0.1ms
Speed measurement	0-20m/s, resolution 0.01m/s	0-20m/s, resolution 0.01m/s	0-20m/s, resolution 0.01m/s
Travel measurement	250.0mm, resolution 1mm	600.0mm, resolution 1mm	600.0mm, resolution 1mm
DC power	DC20-230V, 0-10A	DC30-250V, 0-20A	DC30-250V, 0-20A
Dimension	360mm*280mm*300mm	360mm*260mm*300mm	360mm*280mm*300mm
Weight	7kg	10kg	10kg
Power supply	AC220V±10%, 50Hz/60Hz	AC220V±10%, 50Hz/60Hz	AC220V±10%, 50Hz/60Hz

Circuit Breaker Contact Resistance Tester

CRT

It is designed according to IEC62271
To test the contact resistance of
Circuit breaker or high current
Cable contacts



Main Parameters

Measurement range	0-1999.9μΩ Resolution:0.1μΩ
Measurement current	DC 100A, 200A, 400A, 600A for choice
Measurement precision	0.5%RGD+0.05%FS
Data storage	Save no more than 100 groups of data
Data connection	RS232 computer interface
Dimension	340mm*280mm*210mm
Weight	18kg

Circuit Breaker Vacuum Degree Tester

ZKD

ZKD can directly measure vacuum
degree of vacuum switch interrupter
It adopts new excitation coils and
data processing methods to achieve
the non-demolition measurement
of vacuum.



Main Parameters

Measurement range	10-5-10-1Pa
Magnetic field voltage	1700V
High voltage of pulsed electric field	30KV
Sampler	magnetic coil
Dimension	420mm*320mm*280mm
Weight	12kg

Sf6 Purity Tester

SFP

SFP can quickly and accurately measure the purity of SF6 in SF6 gas or mixed gas of SF6 and N2



Series Sf6 Multi-parameters Analyzer

SFA

SFA series can test various parameters in SF6 gas, different models can test different parameters
 SFA-A: SF6 purity, dew point, water content, SO2, H2S;
 SFA-B: SF6 purity, dew point, water content, SO2, H2S, CO;
 SFA-C: SF6 purity, dew point, water content, SO2, H2S, CO, HF;
 SFA-D: SF6 purity, dew point, water content, SO2, H2S, CO, HF, CF4;
 SFA-E: SF6 purity, dew point, water content, SO2, H2S, CO, HF, CF4, N2, O2;



Portable Partial Discharge Detector

DDP-P

It adopts non-intrusive detection method to detect and locate partial discharge defects in high voltage electrical equipment.



Cable Fault Locator

CFL-I

CFL-I is mainly used to test high voltage arcing fault, earthing high and low resistance, short circuit, breakage, poor contact, etc. of 1KV-35KV cable.



Main Parameters

Measurement range	0%-100%, Accuracy ±0.5%
Measurement time	<2min.
Power supply	AC 220V and Built-in rechargeable battery.
Battery performance	Charging time more than 20 hours, can use 10 hours.
Dimension	250mm*100mm*300mm.
Weight	3kg.

Measurement Range

Purity	0%-100%.
Dew point	-80℃→+20℃.
H2S	0-200ppm.
SO2	0-200ppm.
HF	0-20ppm.
CO	0-1000ppm.
Power supply, dimension and size is the same as SFP.	

Main parameters and features

Working principle	Ultra-high frequency method (UHF), ultrasonic method (UA) and terrestrial electric wave method (TEV).
Detection frequency range	UHF is 300-1500(MHz), ultrasonic is 20-200(KHz).
Measuring range	UHF is -80 to -20dBm, and ultrasonic is 0-90dB.
Data storage	1000 sets.
Power supply	Built-in 8.4V lithium battery, it can work continuously for 8 hours.
Dimension and weight	22cm*10cm*4cm, 1.5kg.

Main Parameters And Features

It uses low voltage impulse method and high voltage flash-over method to test kinds of fault of the cable, if equipped with sound locator, can accurately the position of the fault point.	
Longest measured distance	32km (100km for open wire).
Detection blind area	1 meter.
Reading resolution	1 meter.

Very Low Frequency Hipot Tester

VLF

VLF is designed for very low frequency with stand voltage testing of electrical equipment. It can be applied for 10kV, 35kV, 300MW thermal power machine, 10kV, 35kV power transformer and other electrical equipment.



Main Parameters

Model	Output frequency	Rated Voltage/current	Load Carrying Capacity	Power fuse wire	Booster
VLF-30	0.1Hz, 0.05Hz, 0.02Hz	30kV/20mA(Peak)	0.1Hz, 0.5 μ F-1.1 μ F 0.05Hz, 0.5 μ F-2.2 μ F 0.02Hz, 0.5 μ F-5.5 μ F	10A	30kV booster
VLF-50	0.1Hz, 0.05Hz, 0.02Hz	50kV/30mA(Peak)	0.1Hz, 0.5 μ F-1.1 μ F 0.05Hz, 0.5 μ F-2.2 μ F 0.02Hz, 0.5 μ F-5.5 μ F	20A	50kV booster
VLF-60	0.1Hz, 0.05Hz, 0.02Hz	60kV/30mA(Peak)	0.1Hz, \leq 0.5 μ F 0.05Hz, 0.5 μ F-1 μ F 0.02Hz, 0.5 μ F-2.5 μ F	9A	30kV + 30kV boosters
VLF-80	0.1Hz, 0.05Hz, 0.02Hz	80kV/30mA(Peak)	0.1Hz, \leq 0.5 μ F 0.05Hz, 0.5 μ F-1 μ F 0.02Hz, 0.5 μ F-2.5 μ F	12A	30kV + 50kV boosters

Oil Type AC DC Hipot Tester

SYB

The Hipot Tester is composed of 2 parts: oil type transformer and controller.



Main Parameters

Capacity KVA	SYB-50 Series		SYB-100 Series		SYB-150 Series	
	AC	DC	AC	DC	AC	DC
3kVA	50KV	70KV				
5kVA	50KV	70KV	100KV	140KV		
10kVA	50KV	70KV	100KV	140KV	150KV	210KV
15kVA	50KV	70KV	100KV	140KV	150KV	210KV
20kVA	50KV	70KV	100KV	140KV	150KV	210KV
25kVA	50KV	70KV	100KV	140KV	150KV	210KV
30kVA	50KV	70KV	100KV	140KV	150KV	210KV
50kVA	50KV	70KV	100KV	140KV	150KV	210KV

Primary Current Injection Tester

SLQ

SLQ is an essential equipment for electrical debugging to generate high current. It is widely used in power plants, power distribution stations, electrical plants, scientific research, laboratories and other units.



Main Parameters

Model	Capacity (KVA)	Junior Range		Secondary Range	
		V1	A1	V2	A2
SLQ-3/500	3	220	15	6	500
SLQ-6/1000	6	220	27	6	1000
SLQ-12/2000	12	380	31.6	6	2000
SLQ-15/2500	15	380	39.5	6	2500
SLQ-24/4000	24	380	63	6	4000
SLQ-30/5000	30	380	79	6	5000
SLQ-36/6000	36	380	95	6	6000
SLQ-48/8000	48	380	126	6	8000
SLQ-60/10000	60	380	158	6	10000

DC High Voltage Generator

ZGF

ZGF is an important equipment for DC voltage withstand testing and leakage current testing of surge arrester, cables and other high voltage device.



Main Parameters

Model	ZGF-60/2	ZGF-120/2	ZGF-120/5	ZGF-200/2	ZGF-200/3	ZGF-200/5	ZGF-300/2/3
Output Voltage	60kV	120kV	120kV	200kV	200kV	200kV	300kV
Output Current	2mA	2mA	5mA	2mA	3mA	5mA	2mA/3mA
Output Power	120W	240W	600W	400W	600W	1000W	600W/900W
Booster Size	145*500mm	145*800mm	145*800mm	145*1000mm	145*1000mm	145*1000mm	145*1300mm
Controller Size	350mm*260mm*245mm						
Total Weight	10kg	15kg	17kg	20kg	20kg	20kg	25kg
RippleCoefficient	Less than 0.5%						