



Portable Cable Fault Location System

T32 Portable Cable Fault Location System



- Applied to 1-500kV power cables
- Surging (thumping) 32kV,delivers 2048J
- Maximum safety during application
- Support LV TDR,ICE and ARM prelocation methods
- Magnetic-acoustic pinpointing
- Each part can be used independently

Introduction

With a split and rugged design, we made T32 to be one of the world's most portable and powerful cable fault locators. We built in kinds of time-domain reflectometer(TDR) methods to pre-locate faults, like LV (low-voltage) TDR, Arc Reflection Method (ARM), Impulse Current Decoupling method (ICE). For multiple types of cable faults.

All parts can be used independently. You can only use our TDR part to test the length of a cable, or can only use Pinpointer to locate a fault while you already have a surge generator.

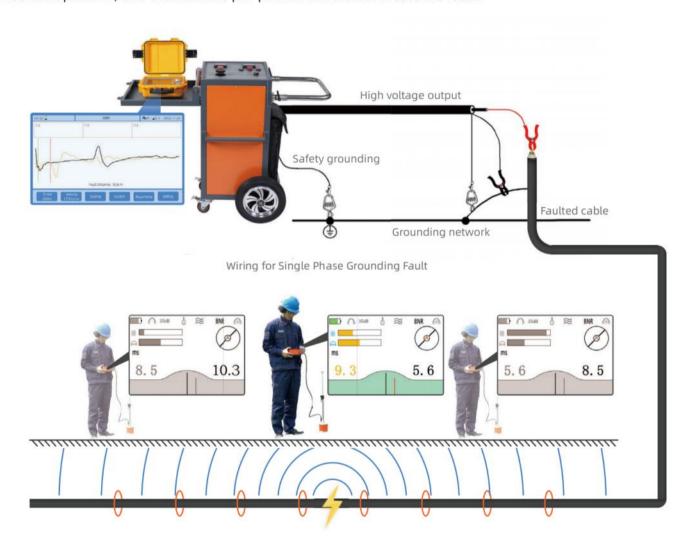


T32 consists of three parts

- Fault location surge generator, model LP30/4+
- Cable fault pre-locator (TDR), model WL50+
- Cable fault pin-pointer, model PP20

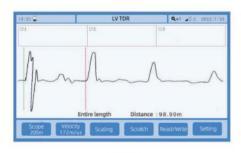
Work together, easy to use T32 to locate cable faults

By using the surge generator to breakdown the faulty cable, observe the TDR waveform to get the predetermined fault position, and then use the pin-pointer to accurate locate the fault.



Support LV TDR,ICE and ARM prelocation methods

Automatic determination of cable end and fault location (in LV TDR and ARM)



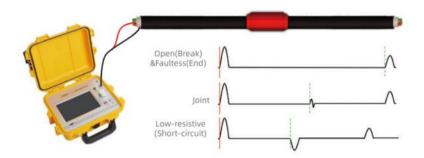




Work smarter: all parts can work independently

Cable fault pre-locator (TDR), model WL50+

When using WL50+ alone, it can be used to test cable length or pre-locate joint position. Low resistance ground fault can also be directly pre-located.



Fault location surge generator, model LP30/4+

LP30/4+ can generate 32kV DC/Surge voltage for breakdown of fault points, also can be used independently or adapted to all pin-pointer.



Cable fault pin-pointer, model PP20

Used to receive the acoustic magnetic time difference signal at the fault point, it can be adapted to any surge generator.









TECHNICAL DATA	
LP30/4+	
Output	DC HV, LV impulse, HV impulse (single, period), arc stability impulse
Impact voltage	0~32kV continuously adjustable
Max output current	40mA
Discharge energy	2048 J
Impulse period	Fixed 5s
Output voltage polarity	Negative polarity
Max output power	500W
Safety	Temperature detection, automatic loop protection,
	double earth system, high voltage key switch
Operating temperature	-25°C -50°C
Storage temperature	-30°C-60°C
Humidity	< 95% no condensation
Power supply	AC 220~240V, 50/60Hz, 1kVA
Protection class	IP 43
Weight	90kg
Size (L x W x H)	560x620x940mm
PP20	
Display	3.5 ", TFT color display, 480 x 320
Backlight	LED
Dynamic range	Magnetic channel > 99dB; Sound channel > 99dB
Acoustic amplification	99dB, free adjustment
Acoustic magnetic time	0.1ms-60ms, synchronous display of historical records
difference display	
Auditory protection	Touch mute sound, sound intensity limit
Positioning accuracy	0.1 m
Space sensing function	Compass guidance, direction indication, cable position identification
Filtering range	Full pass: 100Hz-1500Hz ;Low-pass: 100Hz-400Hz
	Band-pass: 400Hz-800Hz ;High-pass: 800Hz-1500Hz
Noise processing	Intelligent background noise reduction technology
Interface	Acoustic and magnetic pinpoint and audio pinpoint interface; 3.5mm jack
Power Supply	DC 7.4V/5200mAh lithium battery
Continuous working time	≥8h
IP	Handset IP43, Radar IP64
Packing weight	5.5kg (including plastic case)
Packing size (L x W x H)	420×320×150mm



TECHNICAL DATA		
WL50+		
Impulse voltage	50V	
Test range	20m-100km @ v/2=80m/μs	
Wave speed adjustment	150-300m/us	
Impulse width	70ns-15us automatic adjustment	
Resolution	0.1m	
Time domain accuracy	< 50 ppm	
Sampling frequency	400MHz	
Output impedance	10-50Ω	
Working mode	LV TDR method; ICE method;	
	ARM method(secondary impulse method)	
Waveform transient comparison	Up to 4 waveforms can be compared	
Impulse polarity	Negative polarity	
User interface language	English	
Data import/export	Allowed	
Cursor	With independent dual cursor control	
Screen display	7 ", 800 x 480 LED backlight color display	
Screen brightness	800 cd/m² anti-glare capacitor touch screen	
Storage	> 10000 test data	
Interface	Aviation plug, USB2.0	
Power consumption	3.5W	
Power supply	Lithium battery 7.4V, 5200mAh, rechargable	
Continuous working time	≥5h	
Weight	3.0kg	
Size (L x W x H)	270×250×125mm	



Standard accessories of fault location surge generator model LP30/4+

Discharge rod

Direct charge into the earth



HV output line Output HV signal

Fuse

Protect the instrument from burnout



Power cable

Power the equipment



Discharge rod ground wire

Connect the discharge rod to the earth



Discharge ground wire

from being charged



Protect the device enclosure



Standard accessories of cable fault pre-locator (TDR) model WL50+

U disk Store data



Charger

Charge the device



LV impulse line

Used with LV impulse method



Coupler

To couple current when using impulse current method



Impulse current line

Used with impulse current



Ground wire

Protect the device enclosure from being charged



Stable arc line

Connection line for arc stability



Canvas carrying bag

To pack, carry and protect the





Standard accessories of cable fault pin-pointer model PP20

Charger Charge the device



Connecting line
Connect the sensor and the main unit to transmit the signal



Earphone

Connect to the main unit and transmit sound signals



Strong plastic carrying case

To pack, carry and protect the pinpointer



Allen wrench

Used to repaire equipment



Sensor lever

Used to connect sensors



Probe

To locate direct buried cables

