



Portable Cable Fault Location System

T8 Portable Cable Fault Location System



- Applied to 220V-11kV power cables
- Surging (thumping) 15kV, delivers 900J
- Maximum safety during application
- Support LV TDR, ICE and ARM prelocation methods (ARM is optional)
- Magnetic-acoustic pinpointing
- Each part can be used independently

Introduction

With a split and rugged design, we made T8 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, optional), 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.

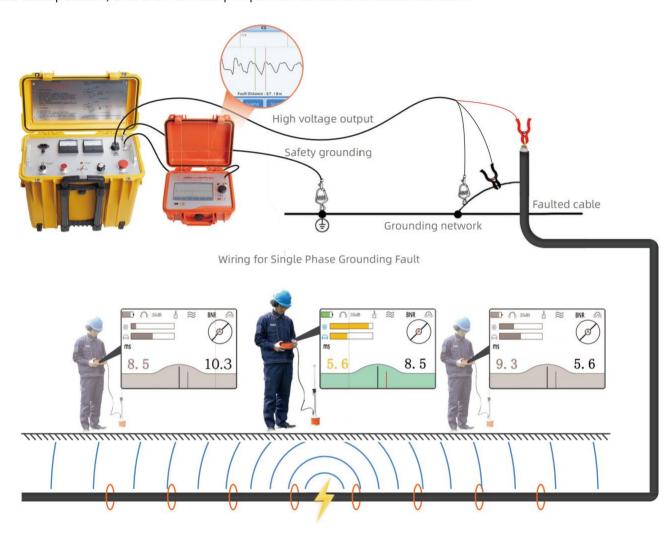


T8 consists of three parts

- Fault location surge generator, model LP15/8
- Cable fault pre-locator (TDR), model WL20
- Cable fault pin-pointer, model PP20

Work together, easy to use T8 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)



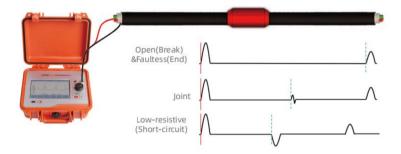




Work smarter: all parts can work independently

Cable fault pre-locator (TDR), model WL20

When using WL20 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 LP15/8

LP30/2 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	
LP15/8	
DC voltage output	0-15 kV continuously adjustable
Max output current	30mA
Max discharge energy	900J
HV mode	Impulse and DC
Impulse period	Fixed 5s
Polarity of output voltage	Negative polarity
Power supply	AC 220~240V 50/60Hz, 1kVA
LED lighting	Providing illumination for dark environments
Max output Power	300W
Safety	Temperature detection, automatic protection loop,
	double grounding system
Operation temperature	-25°C~ 50°C
Strorage temperature	-30°C~ 60°C
Weight	30kg
Size	500×300×400mm
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	0.1 ms – 60 ms, 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		
WL20		
Impulse voltage	30V	
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	200MHz	
Output impedance	50Ω	
Working mode	LV TDR method; ICE method; ARM method	
	(secondary impulse method)-optional	
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 LP30/2

Discharge rod

Direct charge into the earth



HV output line

Output HV signal



Protect the instrument from burnout



Power cable

Power the equipment



Discharge rod ground wire

Connect the discharge rod to the earth



Discharge ground wire

Protect the device enclosure from being charged



Standard accessories of cable fault pre-locator (TDR) model WL20

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







Connect to the main unit and

transmit sound signals

Earphone



Strong plastic carrying

case



Allen wrench



