

## HT-TC Cable Fault Detector



### I. Introduction

The normal operation of cable-communication and electric transport completely rely on the good condition of the cable-circuit. Once the circuit breaks down and without punctually examination and repairing, it will no doubt trigger the mass economic loss and bad social influence. So the electric fault measuring testing instrument is a very important tool. The intellectual testing instrument uses multiple testing methods and adopts the most advanced electronic devices and with computer and special electronic technology, combining our company's successful experience of long-time exploitation on cable-fault measuring testing instruments, and it is absolutely of high tech, intelligence and abundant functions.

Our cable-fault detector is a testing device of good integrity. It can test on the High Resistance Flashover Fault, Grounding High and Low Resistance Fault, Short & Off Circuit on the Cable Fault and Poor contact and etc. If being equipped with sounding method and locating instrument, it can exactly detect the fault point. Furthermore, it especially applies to test for various power cable and communication cable.

### II. Features

#### 1 Multiple functions

Safe, quick and accurate to test. The instrument applies the methods of Low Voltage Pulse and High Resistance Flashover. It can test all kinds of faults, especially on the Flashover and High Resistance fault testing and without burning through. If it is equipped with sounding method and locating instrument, it can exactly point out the location of the fault.

#### 2 High Precision

Our instrument uses the tech of high speed data sampling, the speed of A/D is 100MHz, and makes resolution ratio of 1m and testing dead zone of 1m.

#### 3 High intelligent

The testing results automatically show by wave form and data on the large LED . It is easy for viewing. It does not need especial training for operators.

#### 4 Function of Wave Form and Parameter Saving & Reading

It uses non-volatile devices and after turning off, it still saves the wave form and data.

#### 5 Function of Double-trace Showing

It can compare the wave forms of fault-manner cables and those of the regular ones. It is benefit for the further testing of the fault.

### 6 Function of Magnifying on the Scale of Wave Form

Through magnifying the scale of the wave form, it can make further exact testing.

7 It can wantonly change the position of the cursor, showing the direct or indirect distance of fault point and testing point.

8 It has the function of changing the speed of communication depending on the tested cable.

9 The instrument is portable and with a chargeable battery to provide power. It is convenient to take and use.

### III. Parameters

Scope of application	The instrument can test all kinds of electric cable(voltage of 1KV-35KV) and the Short Circuit, Grounding, Leakage of High Resistance. High Resistance Flashover, Out Line and Bad Contact fault on the local cables, frequency modulation communication cables, coaxial cable and metal aerial cables. It also can test the length of cable and the spread velocity on the cable.	
The longest testing distance	32km	100KM for the open-wire line
Testing .dead zone	1m	
Resolution of reading	1m	
Power dissipation	5VA	
Service condition	environment temperature : 0°C~ +40°C	
	terminal temperature : -10°C~ +50°C	
	relative humidity : 40°C(20~90)%RH	
	Atmospheric pressure : (86~106)Kpa	
Dimension	225x165x125mm3	
Weight	2kg	