

# TFN

## FB11

# CABLE FAULT TESTER

● FAST ● EASY ● ACCURACY ● STABILIZE



## FB11 CABLE FAULT TESTER

TFN FB11 CABLE FAULT TESTER IS THE RESULT OF TFN'S CONTINUOUS IMPROVEMENT AND INNOVATION FOR MANY YEARS. THE TECHNICAL GRADE OF THE WHOLE SYSTEM HAS REACHED THE INTERNATIONAL ADVANCED LEVEL. IT IS THE CONFIGURATION OF THE DOMESTIC CABLE FAULT TEST INSTRUMENT AND BELONGS TO THE MID-END COMBINATION OF CABLE FAULT TEST. THIS COMBINATION CAN BE COMPARED WITH THE PRODUCTS OF ANY CABLE TESTING INSTRUMENT MANUFACTURERS WITHOUT SHORTCOMINGS. AT PRESENT, IT HAS BEEN WIDELY USED IN THE HANDS OF THE MAJORITY OF CABLE MAINTAINERS, AND HAS MADE POSITIVE CONTRIBUTIONS TO THE MAINTENANCE OF POWER CABLES IN CHINA. THE COMPLETE SET OF INSTRUMENTS CAN SOLVE ALL FAULTS OF POWER CABLES UP TO 35KV, AND THE COMPLETE SET CONSISTS OF FOUR UNITS:

## APPLICATION SCENARIO



FARMLAND IRRIGATED LAND CABLE FAULT INSPECTION AND REPAIR



EXPRESSWAY



RESIDENTIAL PROPERTY AND GARDEN GREEN BELT



STREET LAMP CABLE MAINTENANCE



TROUBLESHOOTING OF CABLE FAULT OF RAILWAY  
COMMUNICATION BASE STATION



GUANGZHOU MINING ENTERPRISE

Function and characteristics

1

## CABLE FAULT RANGING HOST

### FUNCTION AND CHARACTERISTICS

1

IT CAN MEASURE THE HIGH AND LOW RESISTANCE FAULTS OF ALL CABLES BELOW 35KV, AND HAS A WIDE RANGE OF ADAPTABILITY.

2

WITH USER-FRIENDLY SOFTWARE AND INTELLIGENT MENU, THE KEY DEFINITION IS SIMPLE AND CLEAR, AND THE MEASUREMENT METHOD IS SIMPLE AND FAST.

3

THE SUCCESS RATE OF FAULT DETECTION, TEST ACCURACY AND TEST CONVENIENCE ARE BETTER THAN ANY OTHER DOMESTIC TESTING EQUIPMENT.

4

8 INCH COLOR LCD TOUCH SCREEN AS A DISPLAY TERMINAL, THE INSTRUMENT HAS STRONG DATA PROCESSING CAPABILITIES AND FRIENDLY DISPLAY INTERFACE.

5

WITH EXTREMELY SAFE SAMPLING HIGH VOLTAGE PROTECTION MEASURES. THE TEST INSTRUMENT WILL NOT CRASH OR BE DAMAGED IN SHOCK HIGH-PRESSURE ENVIRONMENTS.

6

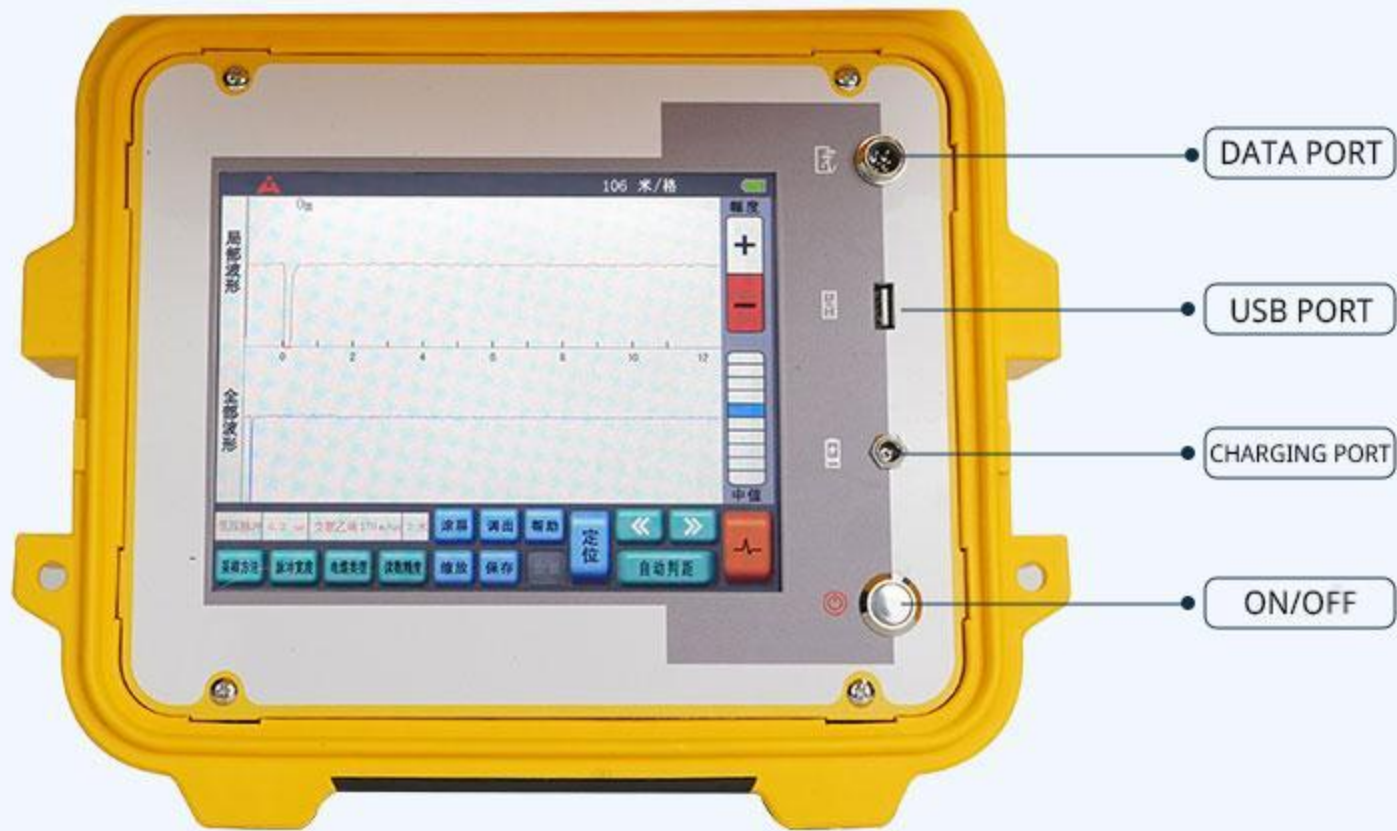
WITH A COMPUTER COMMUNICATION INTERFACE, IT IS CONVENIENT TO SAVE DATA AND GRAPHICS IN THE COMPUTER.

7

NO TEST BLIND SPOTS.

8

THE BUILT-IN POWER SUPPLY CAN TEST THE OPEN CIRCUIT AND LOW RESISTANCE SHORT CIRCUIT FAULT OF THE CABLE IN THE ENVIRONMENT WITHOUT POWER SUPPLY.



# MAIN PERFORMANCE INDEX



FB11 RANGING UNIT

- 1. TEST METHOD: LOW VOLTAGE PULSE METHOD, HIGH VOLTAGE FLASHOVER METHOD
- 2. IMPACT HIGH VOLTAGE: LESS THAN 35KV POWER CABLE
- 3. DATA SAMPLING RATE: 100MHZ, 50MHZ, 25MHZ, 12.5MHZ
- 4. TEST DISTANCE: >64KM
- 5. READING RESOLUTION: LESS THAN 1M
- 6. SYSTEM TEST ACCURACY: LESS THAN 50CM
- 7. TEST CABLE PULSE-WIDTH HAS: "0.05", "0.1", "0.2", "0.5", "1", "2", "EIGHT" MICROSECONDS
- 8. WITH THE TEST WAVEFORM STORAGE FUNCTION: THE WAVEFORM TO BE TESTED IN THE FIELD CAN BE CONVENIENTLY STORED IN THE INSTRUMENT IN THE SPECIFIED ORDER FOR OBSERVATION AT ANY TIME. A LARGE NUMBER OF FIELD TEST WAVEFORMS CAN BE STORED.

- 9. THE MEASURED FAULT POINT WAVEFORM AND THE FULL-LENGTH OPEN-CIRCUIT WAVEFORM OF THE GOOD PHASE CAN BE DISPLAYED ON THE SCREEN AT THE SAME TIME FOR COMPARISON AND SUPERPOSITION COMPARISON, AND THE FAULT DISTANCE CAN BE AUTOMATICALLY JUDGED.
- 10. BUILT-IN POWER SUPPLY: THE INSTRUMENT CAN WORK CONTINUOUSLY FOR MORE THAN 3 HOURS AFTER FULL CHARGE, AND CAN ALSO WORK WITH EXTERNAL AC POWER SUPPLY
- 11. WORKING CONDITIONS: TEMPERATURE  $-10^{\circ}\text{C}\sim+45^{\circ}\text{C}$ , RELATIVE HUMIDITY 90%
- 12. OVERALL SIZE: 27CM\*23CM\*15CM
- 13. WEIGHT: 3.08KG

## ACCESSORIES



CONNECTING LINE



RECHARGER



SAMPLING LINE



SAMPLE BOX  
COMPOSITION

Function and characteristics

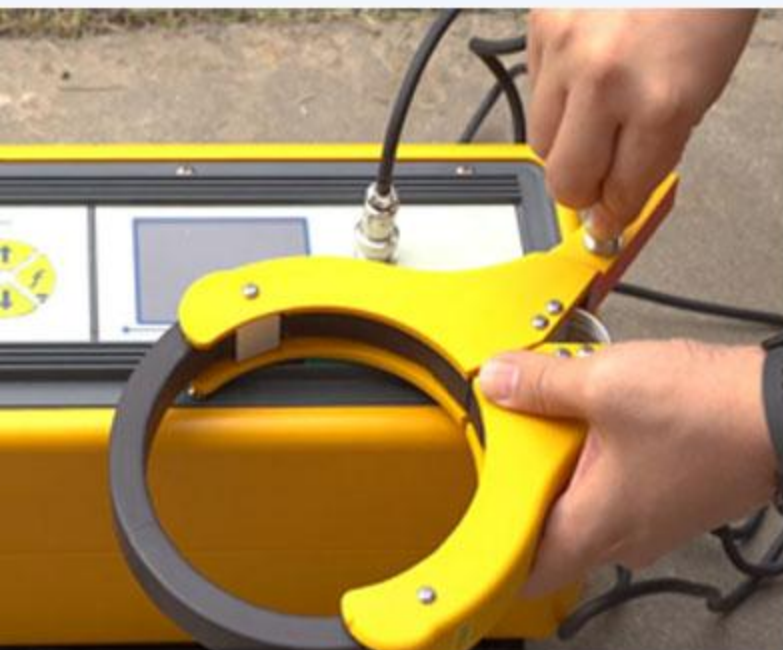
2

## CABLE PATH FINDER

### FUNCTION AND CHARACTERISTICS

- 1 IT CAN DETECT THE DIRECTION AND DEPTH OF UNDERGROUND CABLES.
- 2 EXTENSIBLE WIRELESS SEARCH METHOD, EASY TO OPERATE, EASY TO USE.
- 3 THE INSTRUMENT HAS POWERFUL DATA PROCESSING CAPABILITY AND FRIENDLY DISPLAY INTERFACE FLUID.
- 4 DIGITAL DESIGN, SOFTWARE CONTROL, STABLE AND RELIABLE PERFORMANCE.
- 5 INFORMATION IS REFLECTED IN MANY WAYS, SUCH AS NUMBER SIZE, RASTER FLOAT, SOUND, ETC.
- 6 SIGNAL FULL RANGE VIBRATION PROMPT FUNCTION.
- 7 CONSTANT POWER OUTPUT, AUTOMATIC MATCHING, TO ENSURE THAT THE MACHINE WORKS IN A GOOD STATE.
- 8 FLEXIBLE OUTPUT SWITCHING MODE AUTOMATICALLY SWITCHES TO SLEEP MODE WITH LOW POWER





# MAIN PERFORMANCE INDEX



TRANSMITTER

RECEIVER

## FB11 PATH UNIT

### TRANSMITTER PARAMETER

- OUTPUT SIGNAL: LOW FREQUENCY AC, HIGH FREQUENCY AC
- OUTPUT POWER: CONSTANT POWER OUTPUT, 50%, 100% TWO GEARS (LARGE 1 WATT)
- OUTPUT MODE: DIRECT CONNECTION METHOD
- IMPEDANCE DISPLAY: WITHIN 100KΩ
- LOAD MATCHING: 1~2.5KΩ
- DISPLAY MODE: LCD CHINESE, DIGITAL, GRAPHIC DISPLAY, WITH BACKLIGHT
- BATTERY MODEL: THE WHOLE MACHINE ADOPTS 6 STANDARD NO. 5 1.2V RECHARGEABLE BATTERIES, CHARGING AND DISCHARGING 500 TIMES
- WORKING HOURS: MORE THAN 6 HOURS
- WORKING CONDITIONS: TEMPERATURE -10°C-+45°C, RELATIVE HUMIDITY 90%
- OVERCURRENT: AUTOMATIC PROTECTION
- WEIGHT: ABOUT 0.8KG

## RECEIVER PARAMETER

- OPERATING FREQUENCY: LOW FREQUENCY, HIGH FREQUENCY, POWER FREQUENCY
- WORKING MODE: PEAK METHOD, TROUGH METHOD, EXTERNAL INPUT METHOD
- ANTENNA MODE: ONE HORIZONTAL COIL, ONE VERTICAL COIL
- SOUND INDICATION: FREQUENCY MODULATION TONE THAT VARIES WITH SIGNAL STRENGTH
- BATTERY MODEL: THE WHOLE MACHINE ADOPTS 6 STANDARD 7 1.2V RECHARGEABLE BATTERIES TO CHARGE AND DISCHARGE 500 TIMES
- DISPLAY MODE: LCD CHINESE, DIGITAL, GRAPHIC DISPLAY, WITH BACKLIGHT
- SIGNAL STRENGTH: GRAPHIC DISPLAY, DIGITAL RANGE 0-999 DISPLAY
- GAIN CONTROL: MANUALLY ADJUSTED, RANGING FROM 0 TO 99DB
- DEPTH MEASUREMENT: THREE DIGIT DISPLAY, UP TO 2.5 METERS DEEP
- WORKING HOURS: MORE THAN 8 HOURS
- WORKING CONDITIONS: TEMPERATURE  $-10^{\circ}\text{C}$ - $+45^{\circ}\text{C}$ , RELATIVE HUMIDITY 90%
- WEIGHT: ABOUT 1.2KG

## ACCESSORIES



CONNECTING LINE



COUPLING PLIERS



SAMPLING LINE

Function and characteristics

3

# LIGHTWEIGHT HIGH VOLTAGE SIGNAL GENERATOR

FUNCTION AND CHARACTERISTICS

- 1 VOLTAGE REGULATION AND AUTOMATIC VOLTAGE REGULATION FUNCTION.
- 2 ELECTRONIC VOLTAGE BOOST WITH SWITCHING POWER SUPPLY. SMALL SIZE AND LIGHT WEIGHT.
- 3 WITH OPEN CIRCUIT, SHORT CIRCUIT AUTOMATIC PROTECTION FUNCTION.
- 4 THE OUTPUT VOLTAGE IS DISPLAYED AS A COLOR LCD DISK DYNAMIC DISPLAY.
- 5 PERFECT AND RELIABLE FUNCTION, SIMPLE WIRING.
- 6 THE BOX IS MADE OF ENGINEERING PLASTIC INSULATION MATERIAL, AND THE OPERATION IS ABSOLUTELY SAFE.



# MAIN PERFORMANCE INDEX



FB11 HIGH VOLTAGE UNIT

- HIGH OUTPUT VOLTAGE:  $\leq 36\text{KV}$  NEGATIVE DC
- WORKING VOLTAGE:  $220\text{V} \pm 10\%$  50HZ
- LARGE OUTPUT CURRENT:  $\leq 40\text{MA}$
- OPERATING TEMPERATURE:  $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$
- WORKING HUMIDITY (RELATIVE) :  $\leq 80\%$
- DISCHARGE ENERGY:  $\leq 1200\text{J}/5\text{S}$  (STANDARD WITH 4MF EXTERNAL CAPACITOR, CUSTOMIZABLE)
- BATTERY MODEL: THE WHOLE MACHINE ADOPTS 6 STANDARD NO. 5 1.2V RECHARGEABLE BATTERIES, CHARGING AND DISCHARGING 500 TIMES
- SMALL DISCHARGE PERIOD: 3 SECONDS
- HIGH POWER:  $\leq 1.5\text{KVA}$
- VOLUME: 43CM\*38CM\*23CM
- WEIGHT: 11KG

## ACCESSORIES



HIGH-TENSION CABLE



HIGH-TENSION CABLE



BUILT-UP GROUND WIRE



EQUIPMENT GROUND WIRE



POWER CORD



SPHERE GAP



PORTABLE HIGH VOLTAGE DISCHARGE ROD

## MAIN PERFORMANCE INDEX



FB11 FIXED POINT UNIT

IT CAN ACCEPT THE SOUND WAVE AND ELECTROMAGNETIC WAVE GENERATED WHEN THE FAULT POINT IS DISCHARGED SYNCHRONOUSLY, AND THE DISTANCE FROM THE PROBE TEST POINT TO THE FAULT POINT AND THE SPECIFIC SITUATION OF THE SOUND WAVE AND ELECTROMAGNETIC WAVE ARE DISPLAYED BY THE LCD SCREEN AFTER PROCESSING BY THE CPU.

- HIGH OUTPUT VOLTAGE:  $\leq 36\text{KV}$  NEGATIVE DC
- DISPLAY DISTANCE: LARGE 22.6 METERS, SMALL 0.1 METERS
- SOUND VOLUME: 120DB
- MAGNETIC DISCHARGE VOLUME: 90DB
- POWER SUPPLY VOLTAGE: 9V
- POWER CONSUMPTION: 0.6W
- FIXED POINT ERROR:  $\leq 0.2\text{ M}$
- OPERATING TEMPERATURE:  $-10\text{-}45\text{ }^{\circ}\text{C}$
- DIMENSIONS: LOCATOR:  $180\times 80\times 70\text{ MM}^3$  PROBE:  $\Phi 85\times 90\text{ MM}^3$
- WEIGHT: 1.5KG (INCLUDING PROBE)



## ACCESSORIES



HEADPHONES



PICKUP PROBE



CONNECTING LINE

