



**TIANJIN GREWIN TECHNOLOGY CO.,LTD.**

Web:www.grewin-tech.com;WhatsApp: +86 13072088960

E-mail: salesmanager@grewin-tech.com

## **GWOL-668 Overhead line grounding fault location system**



### **1. Introduction:**

GWOL-668 overhead line fault location system used for 6-35kV overhead line grounding points accuracy pinpointing for the low resistance fault, high resistance, ARC grounding fault.

With whole set, we offer complete solution method for the overhead line grounding fault. Includes function of :

- Line parameter measurement: to test the line parameters and give suggested testing method
- AC low resistance grounding fault location: to solve 70% -80% grounding fault with a more effect method of no need to climb the poles
- DC high resistance grounding fault location: to solve high resistance fault point pinpointing problem that other brands can't do

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- ARC grounding fault pinpointing: first time to solve such type fault pinpointing problem, such as fault from the insulator crack
- Space sector method: if small current grounding system, the system allow system run in two hours after fault, our device can do fault location when line running
- DC voltage withstanding function to check line status after maintain

The whole set includes transmitter, receiver, space magnetic filed sensor and accessories. The transmitter has built-in high capacity Lithium batteries.



Transmitter



Receiver



DC sensor



AC booster



Hanging sensor

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## **2. Feather**

- Used for grounding fault pinpointing of 6-35kV overhead line small current system.
- Whole function of Integrated fault diagnosis, AC location, DC location, AC voltage withstanding, DC voltage withstanding five functions.
- fault diagnosis:
  - ✓ Instructs appropriate positioning methods.
  - ✓ Line insulation resistance, capacitance measurement.
- AC pinpointing -direct connection ( low transition resistance grounding )
  - ✓ Transmitted signal: high power special low frequency AC signal active injection.
  - ✓ Receive signal: search along the section, without the need to hook up the sensor.
  - ✓ Efficient work: no need to climb the pole, greatly improve the test efficiency, reduce the work intensity.
- AC pinpointing -external booster output ( There is grounding PT, medium transition resistance grounding )
  - ✓ Transmitted signal: high power special low frequency AC signal active injection.
  - ✓ Receive signal: along the section search, need to mount the rod to connect the sensor.
  - ✓ No need to remove the line grounding PT.
- Innovative resistance current content and current amplitude ratio, to solve a wider range of faultsDC pinpointing ( line stop running ,with high /low transition resistance grounding and ARC grounding )
  - ✓ Transmitted signal: active injection of high-power pulsating DC signal.
  - ✓ Receive signal: along the section search, need to mount the rod to connect the sensor.
  - ✓ All-around positioning mode, especially to solve the problem of arc grounding positioning.

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- The transmitter has automatic discharge stop function to ensure safe operation.
- The transmitter has over current protection and over temperature protection functions.
- Large capacity lithium-ion battery pack is built in the transmitter, easy to carry.
- Receiver sampling is fully digitized with high sensitivity signal processing, and the criterion is clear and intuitive.
- With data memory function, no loss of power off, more convenient to pinpoint.
- Using temperature  $-10^{\circ}\text{C}$ - $50^{\circ}\text{C}$ ,humidity  $<80\%RH$ , elevation $<1000\text{m}$

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### 3. Tech. Specification

● Transmitter:

Work mode	fault diagnosis, AC location, DC location, AC voltage withstanding, DC voltage withstanding five functions	
Parameter measurement	Resistance	Range : 600 0M $\Omega$ , Accuracy $\pm$ 10%
	Capacitance	Range max. 10uF,accuracy $\pm$ 20%
AC pinpointing	Output frequency	Special frequency 20Hz
	Output method	Power limitation constant current output
	Output current	Max 200mA,external booster output 33mA
	Output voltage	DC output :peak 560V,External booster:peak 3.4kV
DC pinpointing	Output frequency	Impulse 1Hz
	Output method	Power limitation constant current output
	Output current	Max 70mA
	Output voltage	Max DC8kV
AC voltage withstanding	Output current	Max. 33mA
	Output voltage	External booster output: peak 5kV
	Max.power	100W

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DC voltage withstanding	Output current	Max. 70mA
	Output voltage	Max DC8kV
	Max.power	400W
Protection	Overheat protection, over current protection, under voltage shutdown, automatic discharge Automatic shutdown without operation for 2 hours.	
Display	800×480 high bright color LCD	
Power	Built in 480WH Li-ion battery group	
Charging	Input AC220V 50~60Hz; Output 54.6V, 2A	
Vol.	450mm×240mm×270mm	
Weight.	13kg	

● Receiver and hanging sensor

Work mode	AC pinpointing, DC pinpointing
Memory	Data remembering function for all modes
Communication between sensor and receiver	2.4GHz, >100m
Display	800×480 high bright color LCD
Power	Built in Li-ion battery group, standard 3.7V, 6700mAH Hanging sensor recharging Li-ion battery 3.7V,1500mAH
Charging	Input AC100-240 V, 50~60Hz; Output 5V/2A
Vol.	Receiver 226mm×120mm×55mm Hanging sensor: 185mmx140mmx50mm
Weight.	Receiver 0.9 kg Hanging sensor 0.5kg

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