

Wuhan PDF1000 DC System Earth Fault Detector



I. Introduction

PDF1000 DC System earth fault detector applies to all DC system in any voltage class, equipped with high-precision tester, expanded the tested range and strengthened the anti-interference ability by processing many kinds of signal. Adopted excellent method of calculation and advanced Fuzzy control calculation theory, show us the advancement of the measured circuit branch by numerical value, which reflect the superiority of artificial intelligence sufficiently. Correctly detect the position of the earthing contact each time.

The device with system security as paramount premise, according to the highest industry standards requirements, use reliable low-frequency signals to detect, and do a lot of practical applications in the field, without any impact on the system.

The device is used to find the DC system ground exact location of power plants and substations under power-on state. It can quickly find the earthing contact to various types of ground fault; the accuracy rate reaches 100%.

II. Features

1. Easy to use, customers can directly operate only need turn on the power switch.
2. Safe and reliable, do not need power off the charger or other power source, without effects to DC system.
3. Applies to various voltage class, DC system 220V, 110V, 48V, 24V.
4. Wide range of application, any power plant, transformer substation, colliery, chemical plant and others power supply departments.
5. Easy to carry, the signal receiver equipped with battery, do not need external power source.
6. DC system do not need power off when searching the earthing contact, do not affect the normal work of the system.
7. Strong anti-jamming ability, without the effects by system distributed capacitance.
8. Intelligent charge Management, shorten the charging time, lengthen the battery life.

III. Parameters

Signal generator	Output signal frequency	2.5Hz
	Signal no-load output voltage	$\pm 20V \pm 5\%$
	Signal voltage amplitude error	$< 5\%$
	Signal short circuit output current	$\leq 80mA$
	Output terminal shock resistance capability	400V DC impulse
	Supply voltage	AC220V $\pm 10\%$
	Voltage frequency	50Hz $\pm 5\%$
	Input fuse	200mA
	Maximum power	3W
	Dimension	300 \times 270 \times 200mm ³
Signal receiver	Signal current measurement sensitivity	0.5mA
	Impedance of signal receiver	40K Ω
	Maximum output current	2.5 mA
	Display of receiver	Number 0~19
	Dimension	210 \times 100 \times 32mm ³
	A jaw size	$\Phi 50mm$
B jaw size	$\Phi 7mm \times 9mm$	
Complete appliance	Measured maximum ground resistance	300k Ω
	Ground resistance measurement accuracy	0~4.5K Ω , error $\leq 0.5K\Omega$ 4.5K Ω ~300K Ω , error $\leq 10\%$
Dimension (host)	340*290*140mm ³	
Weight (host)	3.96kg	
Dimension	390*290*140mm ³	
Weight	2.8kg	

IV. Accessories





Signal Output Cable



Receiver Clamp B



Receiver Clamp A



Power Cord



Manual, Report, Certificate