

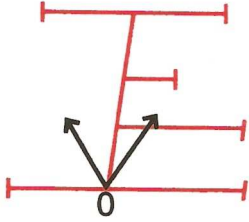
Float Power Systems & Controls

PITE 3836 Ground Fault Locator



PITE 3836 is the updated version of **PITE 3830** ground fault locator. This patent-protected product is built based on years of field experience in different DC systems. It specially deals with current leakage DC system of high resistance below $1\text{M}\Omega$. It pinpoints faulty grounding where electrical lines have breakage and current lost to the ground.

For More information, please visit our website: www.floatpowersystems.com



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Why PITE 3836?

Cost can be tremendous upon bad insulation or grounding in the power system. It may even cause power break-off which is costly to repair. Fast localization and elimination of grounding faults will be significant for electricians and technicians. It is also required by DIN VDE 0100-410 (VDE 0100-410): 2007-06 chapter 411.6.3.1 and IEC 60364-4-41 chapter 413.1.5.4. PITE 3836 is developed to fast detect, track and locate virtual grounding faults on DC systems. This spares you from hours of unnecessary troubleshooting and helps to increase the reliability of your electrical equipment. It is widely used in locomotive, telecom, power utilities, etc.



Composition of Signal Receiver



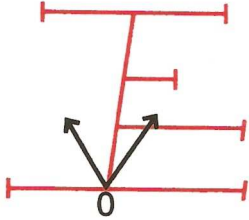
Signal receiver



Different sizes of current detectors



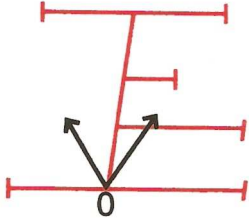
Optional signal receiver



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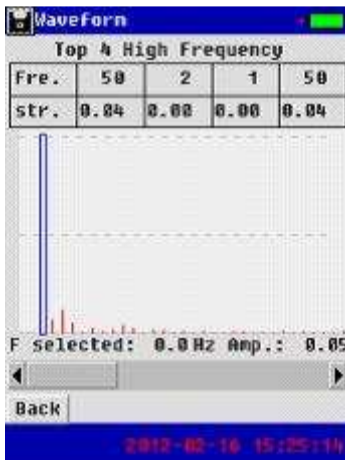
Features

- Patented technology, pinpoint current leakage fault with grounding resistance lower than $1M\Omega$.
- Configured with different sizes of current detector for different environments application.
- Adjustable output frequency on signal receiver effectively avoids interference from DC system itself.
- Signal receiver with adjustable sensitivity in different location of circuit help judge current leakage quickly.
- Digital signal processing technology for detecting grounding resistance and distributing capacitance.
- No disconnection of the electrical installation, ground fault location is carried out during operation.
- Direction (positive or reversed) indicating for Leaking current help fast locate the faulty grounding.
- Waveform analysis will analyze the interference signal in the circuit, greatly keep it away from interfered frequency.
- Signal-generator with adjustable output voltage (24V, 48V, 110V and 220V) and output frequency (0.5~1000Hz), suitable for different electronic equipments.
- More signal receivers can work simultaneously to narrow down the searching scope and find out the fault quicker.
- Reflects aging status of facilities for further reparation, and reduced maintenance and repair costs.

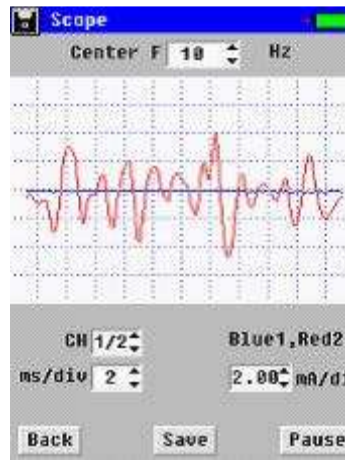


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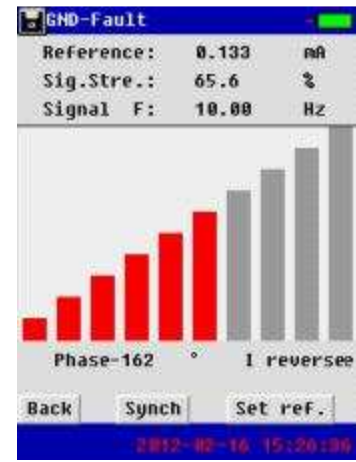
Functional Display



Frequency analysis to filter the environment frequency that might affect the testing result



Oscilloscope to compare waveform before and after filtering of affected waveform



Selective frequency and judgment for current direction for easier and more accurate location of faulty grounding

Typical application

- Power utility:** DC system with faulty grounding, e.g. switchgear in substation.
- Railway:** Signal, communication and locomotive electronic equipments in railway.
- Communication:** Electronic equipments of different voltage range with faulty grounding.
- Others:** DC system in aviation, metallurgy, auto works, household appliances and so on.