



## NERM AND NERM INDICATOR NEUTRAL EARTH RESISTANCE MONITOR

The NERM provides continuous monitoring of the integrity of the neutral earthing resistor (NER) and is used wherever neutral earthing resistors are applied.



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OPERATIONAL INFORMATION & SPECIFICATIONS

# NERM

The NERM and its associated NERM Indicator form an integral part of the protection scheme in power transformers, mining mobile mini-substations and static mini-substations. It monitors the integrity of the NER. If there is any detection of potential risks, the NERM will trip out the entire connected system, thus preventing any catastrophic earth faults.

When a phase-to-earth fault occurs, the NERM can withstand the full phase to earth voltage across it for much longer than it takes the earth leakage relay to trip, therefore the NER will not suffer any consequential damage.

The NERM is offered in two models, 500 and 1000. The NERM 500 is a solid state non-fail safe unit with two normally open solid state relay outputs. The NERM 1000 is a fail safe electro-mechanical unit, featuring two normally open and two normally closed contacts.

## Why buy a NERM and NERM Indicator

The NERM and its NERM Indicator are designed, manufactured and supported in South Africa to meet the needs of our harsh climate.

The NERM for mobile mini-substations has the added benefit that its enclosure can withstand high impacts normally associated with mining operations.

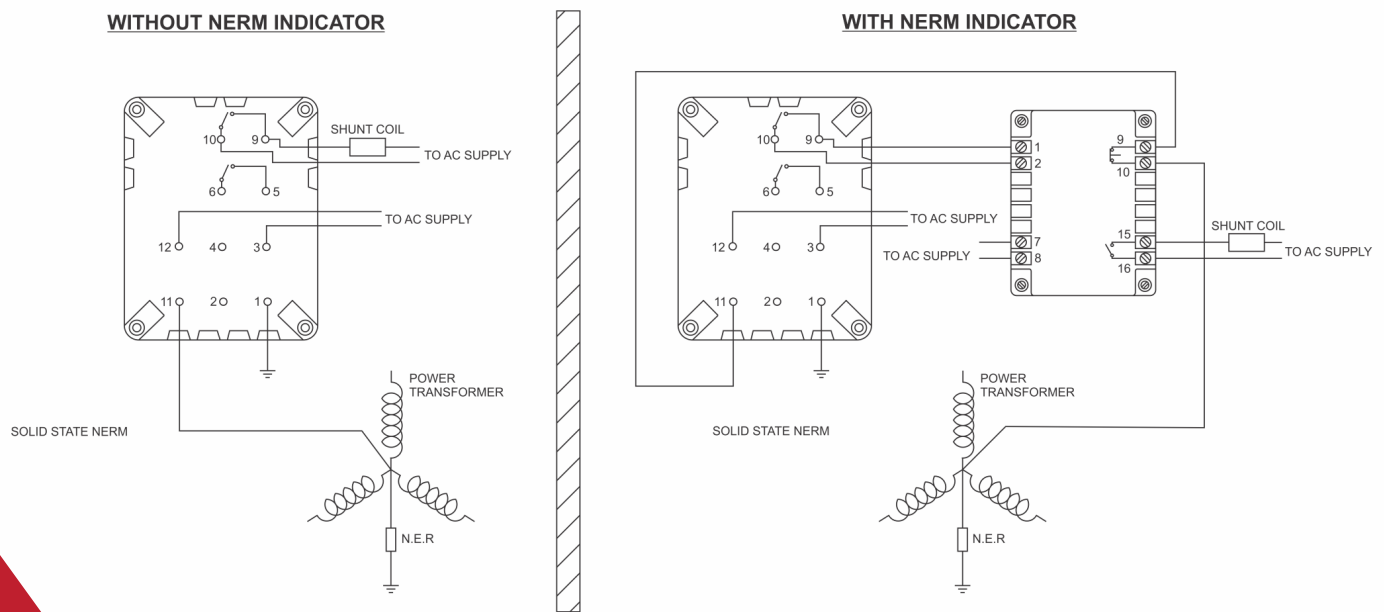
For many decades, the NERM and its indicator have been installed and operated successfully in countless mines around South Africa and Sub-Sahara Africa.

The NERM and its indicator have become accepted standard in the industry for protection of Neutral Earthing Resistors.



# Key features and functions

## NERM 500 solid state connection diagram



Note:

1. Terminals 5 and 6 are normally open solid state switches.
2. Terminals 9 and 10 are normally open solid state switches.
3. This relay is non-fail safe. Contacts are shown in the de-energised condition.

### NERM

Panel, base or chassis mounted.

NERM 500 is electro-mechanical and supplied as a solid state relay (change over contacts available on product).

As per user requirements the relay can be preset to desired NER Ohmic level.

Can be used with or without NERM Indicator.

User specified power supply of 110V or 220V AC.

Available in normally open or closed contacts rating at 5A at 500V AC.

### NERM Indicator

Snap action door mounting by means of clip frame sealed with neoprene rubber gasket, accommodating a panel thickness of up to 4mm.

Large trip flag on front of NERM indicator.

User specified power supply of 110V or 220V AC.

Screw or slide on rear connections.

Unique built-in test function ensuring the integrity of the monitor and indicator.

Built-in reset button.



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## PRODUCT REPAIRS

### Product Failure

Report any failure to supplier or manufacturer.

Use proper packaging when returning for any reason.

Use supplied contact information or your known supplier.

### Factory

Physical Address: Strike Technologies.  
31 Park Avenue North,  
Highway Business Park,  
Rooihuiskraal,  
Centurion,  
South Africa.

### Contact info:

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|-----------------|----------------------|
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| E-mail:         | support@strike.co.za |
| Remote Support: | TeamViewer           |