

PROTEC Z +

**Combined transient switching surge suppressor with PD sensors for
PD monitoring and rotating machine management**



The PROTEC Z + is an extremely effective sensor for on-line monitoring of the condition of the winding insulation of the protected motor, generator or dry type transformer utilizing partial discharge analysis. It is more effective than coupling capacitors used for this purpose because of the wider frequency response afforded by the PROTEC Z +. This permits seeing deeper into the windings and provides significantly improved coverage, which has always been a weakness of conventional coupling capacitor sensors.

Features

- Robust, high grade stainless steel enclosure.
- Enhanced THD (V) withstand.
- Designed for multi-ranging applications.
- Permits integrity test of functional components.
- Safety switch on all HV products as a standard.
- Option for integrated partial discharge sensor.
- Recognised quality system certification

Benefits

The Protec Z offers complete protection to the insulation systems of motors, generators and dry type transformers against long and short term damage from over voltage spikes caused by contactors and breakers. In particular, insulation between turns and coils close to the line terminals are not exposed to excessive voltages resulting from non-uniform voltage distribution caused by steep fronted transients.

The Protec Z provides insulation coordination at all practical surge magnitudes and rise times. Multiple pre- and re-strikes in the switchgear are eliminated, resulting in significant life extension of machines.

In addition, the Protec Z + PD option permits measurement and monitoring of partial discharge activity.

Installation

The Protec Z must be installed in accordance with the latest NTSA Protec Z application and installation manual, available on NTSA website www.ntsaco.za

Warranty

The Protec Z surge suppressors are backed by a twelve month factory warranty.

NOTE

NTSA reserves the right to apply continuous research and development which may result in improvements affecting any aspect of specification or appearance at any time.