

# UltraTEV Alarm™

The UltraTEV Alarm™ is a unique and cost effective early warning system, providing continuous monitoring of MV switchgear for signs of deterioration which are likely to lead to failures and increased risk to personnel.



## Benefits:

- Low cost permanent monitoring of critical assets
- Workforce confidence following a switchgear incident
- Enhance substation staff confidence and safety
- Can automatically restrict substation access
- Extend life of assets scheduled for replacement
- Indicate problems with newly commissioned switchgear



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The UltraTEV Alarm™ comprises an alarm box hub, linked to a series of sensor nodes, which are placed on switchgear panels.

The instrument uses two technologies for measuring partial discharge activity - electromagnetic detection of transient earth voltages (TEVs) and ultrasonic detection. This combination ensures that discharge activity both internal and on the surface of insulation is accurately identified on the switchgear.

When an individual sensor detects levels of partial discharge activity above the threshold level the UltraTEV Alarm™ node displays a light on the sensor and also triggers an alarm indication on the hub.

Relay contacts on the hub can be utilised to provide a local alarm and can also interface directly to a SCADA system. An optional GPRS addition enables users to receive alarm messages via SMS or email, so operators can immediately locate the source of a problem.

There is no practical limit to the number of sensor nodes that can be connected to each alarm box.



The Ultrasonic Sensor and Alarm Node

UltraTEV Alarm™ Hub



### Features:

- Simple to install
- Modular
- Cost effective
- No practical limit to the number of sensor nodes that can be connected to each alarm box

For further information contact:

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