

## Smart Diagnostic Monitoring Technologies

# PD71

A complete portable UHF Partial Discharge (PD) analyser for Gas Insulated Switchgears (GIS).

#### Key Features

- Online Measurement
- PD Location
- ▶ PD Expert System
- Advanced Data Display

#### Benefits

- Compact, Portable
- Reliable PD monitoring
- Competitive Cost
- CIGRE complaint (5pC)

Compact, light, easy to carry around site, simple displays for very advanced features makes the PD71 one of the best tools for periodic GIS UHF PD measurement.

The highly advanced timing system in the PD71 allows the location of the PD to be calculated within the GIS. The PD71 system can provide automated simple results, or advanced screens for experts showing the pulse timing sequences between channels. Location is key in risk analysis, a similar sized defect can be safe in one location, while being extremely dangerous in another.

The unique PD Intensity is used to measure the energy in the PD. The PD pulse waveshape can be optionally captured and stored. Advanced analysis developed from experts in the field of GIS and PD signals. The combined result give accurate warnings that minimize the false alarms for the operator.



The analysis from the PDScrypt engine offers the latest methods to identify PD with a far more reliable analysis that from a 1 second snapshot commonly used in other products.



SDMT Ltd. South Oaks, Main Road Cardross, G82 5JY United Kingdom Tel: +44 141-5309470 Fax: +44 141-5309471 www.sdmt.co.uk info@sdmt.co.uk



## Smart Diagnostic Monitoring Technologies

The main software interface is simple enough to be used with minimal training. A full range of trends, patterns and parameters are available for the expert user. Custom real views can be used if available, or any other representation of the GIS. Basic parameters are displayed on the real and schematic views.





3D sequence



Key to all good PD measurement is synchronization to the busbar voltage. The mains supply for the device can be used, though this is not always a good or suitable source. The remote wireless unit allows freedom to move around the station with no need for a local AC supply. The many inputs from the wireless module gives maximum flexibility for any test arrangement.

A range of standard external PD sensors can be supplied, or the system can interface to any other UHF PD sensor on the market.



SDMT Ltd. South Oaks, Main Road Cardross, G82 5JY United Kingdom Tel: +44 141-5309470 Fax: +44 141-5309471 www.sdmt.co.uk info@sdmt.co.uk



## Smart Diagnostic Monitoring Technologies



Specifications	
Number of PD channels	6
UHF PD frequency bandwidth	300MHz to 1500MHz
UHF PD amplitude range	70dB
UHF PD level sensitivity	-75dBm
PD location accuracy	<50cm
Maximum PD pulses per second	30 000
Weight	8 kg
Operating temperature range	-20°C to 70°C
Relative humidity range	not more than 95%, non-condensing