

ASM-P Medium Term PD Monitoring



ASM-P is a Partial Discharge monitor for medium term testing of cables and switchgear. Based on the highly successful ASM system for permanent installation, the ASM-P is installed into a substation for 1 week or more in order to build up a picture of the condition of plant assets where high PD levels may have shown during a spot test and a temporary monitoring system needs to be implemented to ensure asset health in the short term.

The Benefits

- **Online PD detection-** The ASM-P uses PD sensors that couple to the HV network and equipment non-intrusively and on-line such that no disconnection of the circuits is required.
- **Fully portable-** The monitor is enclosed in a tough IP rated carry case with extendable handle. At only 14kg the monitor can be easily and quickly transported to and installed on site.
- **Remotely accessible-** Using any of a wide range of communication protocols, the ASM-P automatically downloads to a central database from where it can be viewed on the analysis website.



Web Based Analysis

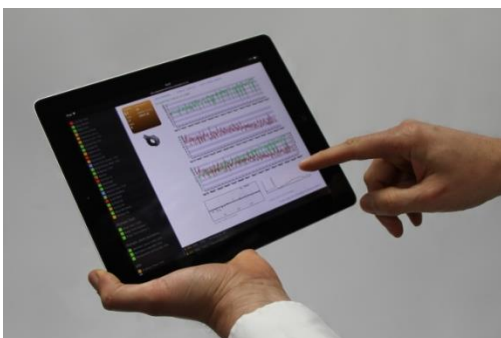
Partial D The PD-Alarm is a customer specific secure website is used for review and analysis of individual asset condition. This powerful tool allows users to drill down from a basic condition overview to highly detailed data including sampled PD wave shapes.

- Sensitive PD detection in high noise environments
- Local alarms plus email and SMS alarms
- Automated generation of criticality league table
- Supports HFCT, TEV and AE PD sensors
- Trend analysis and reporting



The Features

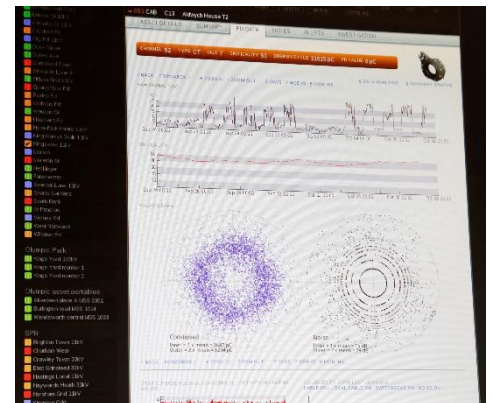
- Display – Ultrasonic and TEV level displayed in dB
- Alarms – Current 'live' alarms and historical alarms
- TEV – Measurement of electrical transients generated by internal PD
- Ultrasonic detection – 3 independent ultrasonic channels detecting surface PD
- Integrated Noise Detection – Algorithm helps avoid 'False Alarms'
- Simple to install – No wiring required between PD detector and central hub



Technical Specification

ASM-P

www.ipec.co.uk



Input Channels

Number of channels	Up to 32
Spike Protection	1,000V

PD Monitoring

Sensor types	HFCT for cable PD CC for TEV local PD AA for acoustic, surface tracking
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Cable PD range	50pC – 1,000,000pC
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TEV range	0dBmV – 54dBmV
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Acoustic	-6dBuV – 54dBuV
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Test type	PRPD – PD pattern, wave shape analysis
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Data Acquisition and Analysis

Signal sampling	100MSamples/sec, 12 bit
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Bandwidth	30kHz – 250MHz
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PD Analysis	Automatic
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Reporting	Website
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Operating Environment

Temperature	-10°C to 55°C
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Humidity	≤90% RH non-condensing
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IP Rating	55 when in use, not rated when in use
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Dimensions

Size	550 x 630 x 300 mm
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Weight	14 kg
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Power

Rated Voltage	100 to 250 VAC, 512V, 1.65A
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Frequency	47 to 63Hz
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Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU) and EMC Directive (2014/30/EU)
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Designed and manufactured in the United Kingdom

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