Instruments

Power Diagnostix Systems GmbH produces versatile, top-quality instruments for high-voltage diagnostic applications. Power Diagnostix ICM*series* of partial discharge (PD) detectors is used worldwide for evaluation of electrical insulation used in electricity generation, transmission and distribution, in manufacturing, in research, and in industry. In addition to partial discharge detection equipment, Power Diagnostix produces instruments for fiber optic transmission, GIS fault location, tan δ measurements, and high-voltage test control.

ICM*system*

The ICM*system* is a digital partial discharge detection system. The instrument is completely controlled by software using a GPIB, USB, TCP/IP, GSM Modem, fiber optic or direct serial link.

ICM*sys*8

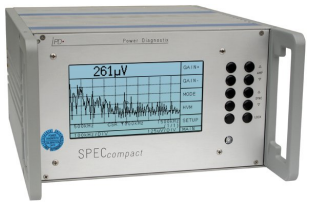
The ICM*sys*8 is a true-parallel 8-channel acquisition system, while offering all features of the single channel ICM*system*. It is designed for acceptance tests on large power transformers and other application requiring parallel acquisition.

ICM*compact*

The ICM*compact* is a stand-alone partial discharge detector often used for quality assurance. Among other options, the ICM*compact* can be equipped with circuits to perform partial discharge location in power cables.

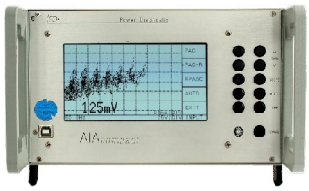
ICM*monitor*

The ICM*monitor* is an instrument for continuous on-line monitoring of partial discharge activity in high voltage equipment. The instrument tracks changes in key discharge quantities for storage in trending diagrams and for triggering user-settable alarms. TCP/IP, Modem, fiber optic or direct serial links enable remote access and full remote control.



SPEC*compact*

The SPEC***compact*** is a narrow- and broadband partial discharge detector with selectable center frequency. The unit offers as well spectrum analysis up to 10 MHz and a selectable bandwidth of 9 kHz or 270 kHz.



AIA*compact*

The AIA***compact*** is a portable unit for acoustic and electric (UHF) partial discharge measurement on GIS, transformers, and cable accessories. Optionally, the unit can be equipped with circuits for UHF measurements.

SPEC*monitor*

The SPEC***monitor*** is a partial discharge analyzer comprising a spectrum analyzer, an acoustic detector, and a conventional partial discharge monitor in one instrument.

RIV*meter*

The RIV***meter*** is an instrument for the measurement of 'Radio Influence Voltage' according to NEMA 107-1987 and other relevant standards.

Power Diagnostix Systems GmbH
Vaalser Strasse 250
52074 Aachen
Germany

Email: support@pdix.com
Web site: www.pdix.com
Tel: + 49 241 74927
Fax: + 49 241 79521

ICM*flex*

The ICM***flex*** instrument family, introduced in 2008, bases on the latest concept where the entire acquisition hardware is placed on high voltage potential. The instruments are fully remote controlled via high speed Bluetooth or fiber optic communication.

TDA*compact*

The TDA***compact*** is a loss factor meter. The capacitance C_x, the tanδ, and the voltage are derived by digitally processing the currents of the test capacitor and a reference capacitor.

HV*compact*

The HV***compact*** is a high voltage meter with an auto-ranging oscilloscope display of the voltage waveform. The unit displays Û, Û/√2, U_{rms}, frequency, and crest factor.

STEP*compact*

The STEP***compact*** allows running high voltage test sequences. The instrument controls via fiber optic cable the 'UP' and 'DOWN' contact of the motor driven voltage regulator (VARIAC). The instrument detects incipient breakdown.

PD•

HV*control*

The HV*control* offers all features that are required to manually control any high voltage test set. Current limits that trip the main circuit breaker can be set for I_{prim} and I_{sec}.

FO*system*

The FO*system* is a complete set of instruments for fiber optic transmission of analog signals from different sensors (e. g. temperature, pressure, acoustic, voltage, current). The signal bandwidth covers DC up to 10 MHz.

ATT*analyzer*

The ATT*analyzer* supports commissioning of gas-insulated switchgear yards. Signals of up to 16 acoustic sensors can be connected. Precise localization of breakdown within the GIS is provided by comparing the travel-time of the breakdown sound to the various sensors.

GIS*monitor*

The GISmonitor offers parallel, real-time acquisition of UHF PD signals captured by any embedded or external sensors permanently installed on gas-insulated switch gear (GIS). The system builds on compact 8-channel sub-modules to allow flexible configuration.

Power Diagnostix Systems GmbH
Vaalser Strasse 250
52074 Aachen
Germany

Email: support@pdix.com
Web site: www.pdix.com
Tel: + 49 241 74927
Fax: + 49 241 79521

Mobile HV AC Test System

On-site transformer testing is the main application of Power Diagnostix' mobile high voltage AC test system. However, it can be used as well for other on-site testing, such as of GIS, rotating machines, or high voltage cables.

Calibrators (CAL)

We offer a variety of calibrators ranging from 1pC to 50 nC. Due to their high bandwidth the calibrators are suitable for impulse reflectometry on cable systems and for GIS testing. New charge calibrators are shipped with the DKD calibration certificate to ensure the traceability to international standards.