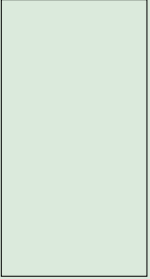


Yes, I need further information

- about the new PD Detector LDD-6
- about all LDIC-Products
- Please contact me.

^ Name
 ^ Company
 ^ Street
 ^ ZIP Code, City
 ^ Phonenumber
 ^ Email

Company stamp



LEMKE DIAGNOSTICS AG
 Quellenstr. 10

CH-4310 Rheinfelden
 Switzerland

please detach card along perforation and send it back by postal mail or fax or send an e-mail request to info@ldic.ch

Competence in High Voltage Test and Measuring Technique



LEMKE DIAGNOSTICS GmbH
 Radeburger Str. 47
 01468 Volktersdorf/Dresden
 Germany
 Tel.: +49-35207-8630
 Fax: +49-35207-86311
 Email: info@ldic.de
 http://www.ldic.de

HV Technologies Inc.
 P.O. Box 1630
 Manassas, Virginia 20110
 Tel: +1-703-365-2330
 Fax: +1-703-365-2331
 Email: hvsales@hvtechnologies.com
 http://www.hvtechnologies.com



LEMKE DIAGNOSTICS AG
 Quellenstr. 10
 4310 Rheinfelden
 Switzerland
 Tel.: +41-61-836-8000
 Fax: +41-61-836-8001
 Email: info@ldic.ch
 http://www.ldic.ch

Company News

LEMKE DIAGNOSTICS GmbH, Volktersdorf/ Dresden and HV Technologies, Inc. Manassas/ USA have announced a full merger of their entities and operations to be completed by spring 2001. The merged companies will be held by a holding company pending legal registration in Germany. The worldwide sales and distribution activities will be managed by a newly established sales subsidiary LEMKE DIAGNOSTICS AG in Rheinfelden, Switzerland.

The group will be a leading supplier of High Voltage Measuring and Testing Equipment as well as Diagnostics and Monitoring Systems to the power utility and power apparatus industries.

The LEMKE DIAGNOSTICS Group will be equally owned by the shareholders of the existing two companies. The new management will consist of Alain Bolliger, Eberhard Lemke and Thomas Strehl.

"The know-how and resources of our existing companies complement one another remarkably well. This merger will support our plans

for growth and give us the flexibility and strength to better meet the needs of our customers"

Dynamic Development

- Continuously expanding product range
- Accredited calibration facility of the Physikalisch-Technische Bundesanstalt (DKD)
- Measuring and testing services

LEMKE DIAGNOSTICS Group

Staff: 29
 Annual Sales: 8,4 Mio. DM
 Customers in: Europe, America, Asia
 Main customers:

- Suppliers of high voltage equipment such as ABB, Siemens, Pirelli, HIGHVOLT
- Power utilities
- Universities and Research Organizations

LDIC NEWS

Dear Clients,

we are pleased to put our first edition of the LDIC News in your hands. In the future, this newsletter will be published periodically to inform you on the progress and news in our company. We also want to share some information on our people that are committed to work for you and your specific testing applications.

In this edition we are pleased to introduce our latest development – the **Compact Digital PD Detector LDD-6**. If you wish to get more detailed information, please simply send the attached card, either by fax or by postal mail, or send us a short e-mail request. We hope, you will enjoy this flyer.

Your LDIC-Team

++ NEW ++ Digital PD-Detector LDD-6 +++ NE



Competence in High Voltage Test and Measuring Technique

Digital PD Detector LDD-6

This advanced product of LDIC is based on the well established wide-band processing technology of partial discharge signals.

Main field of application for the LDD-6 is standardized partial discharge quality assurance testing of high voltage equipment, as well as basic assessments on insulating materials and for research and education.

Innovation at the Hannover Fair – PD Detector LDD-6

The PD detector LDD-6 is designed for standardized measurement of partial discharges (PD) in accordance to IEC 60270/ DIN 0434. Based on wide band measuring technology and digital signal processing, a PD pulse resolution of up to 100 kHz at a measuring sensitivity of < 1 pC is achieved. Pulse charges up to 100 000 pC can be measured.

Due to the compact design of this instrument with the integrated computer, it is incredibly easy to use and comprehensive information of the PD signal is obtained by user friendly software. The PD data are displayed, stored and analyzed in real time. They can be replayed like a video at any time. A test report can easily be created with an internal user friendly protocol generator. Additional plug-ins are

available for RIV-measurements on transformers according to the NEMA-standard as well as for PD detection on gas-insulated switchgear in the UHF/VHF range.

With additional noise suppression features, the measuring system can not only be used in shielded testing labs but also under electromagnetically disturbed on-site conditions. The built-in gating function allows a pulse blank-out of both, phase stable and stochastic pulses. This noise suppression channel is equipped with a software controlled pre-amplifier of high dynamic range up to 80 dB.

The LDD-6 is designed for quality assurance tests during the production process, for on-site diagnosis tests, as well as for educational and research purposes.

LDD-6 – Detection of Partial Discharges

Spezification

- PD-detection sensitivity < 1 pC
- Detectable apparent charge up to 100.000 pC
- Wide band pre-amplifier 20 kHz ... 20 MHz
- Measuring frequency for evaluating the apparent charge according to IEC 60270: 20 kHz ... 500 kHz
- PD-pulse repetition rate > 100 kHz

Hardware

- Analog wide-band PD processing unit according to IEC 60270
- "Hardware Gating" for pulse suppression (Dynamic range 0 - 80 dB)
- Powerful computer for storage, display and analysis of the PD data
- User-friendly windows-based handling (Touch Screen / flat panel display)
- DSP for real time processing
- Alternative plug-in for PD signal processing (optional RIV and UHF/VHF)

Software

- Windows Operating System
- Measuring and Evaluation Software for PC based measuring, storing, display and analysis of PD signals (phase-resolved PD pattern)
- Measuring and display of test voltage
- Automatic calibration routine
- Real time acquisition of PD signals and visualization
 - PRPD (phase-resolved PD pattern)
 - q(U) Diagram
 - q(t) Diagram
 - H(q) Diagram
- Video Replay-Mode for PD Analysis

Protocol-Generator

- Comfortable arrangement and editing of test reports
- Automatic formatting of data and graphics

Product Line Overview

Partial discharge Technology

- Digital Measuring System LDS-6
- PD Detector LDD-6
- PD Warning Device LDWD-6
- Differential Lemke Probe LDP-5
- UHF/VHF Converter LDA-5/U
- Ultrasonic PD Sensor LDA-5/S
- Directional Coupler System DCD
- Power Cable Test Van CDA-50

C/tañδ Technology

- Dielectric C/tañδ Measuring System LDV-5
- Dielectric Analyzer DIANA
- Test Cells LDZ-5/SI & LDZ-5/LD

Systems

- Automatic Test Set for Switchgear Components
- Automatic Measuring System for Surge Arresters LDX-12

Applications

- Power Transformers
- Switchgear
- Medium & High Voltage Cables
- Cable Accessories
- Arresters & Protective Devices
- Capacitors

DKD Calibration Laboratory

- PD Reference Calibrator Units LDC-5/E & LDC-5/R

Monitoring for higher reliability of HV apparatus

LEMKE DIAGNOSTICS Group manufactures measuring and diagnostics systems for high voltage insulation condition monitoring. The different functional stages can be explained by using a comparison from the medical environment: The "precaution checkup" is marked by the quality assurance before installing machines, transformers, switch gear and cables. The "health checkup" is the equivalent of testing the equipment which is already in use – this is the on-site diagnosis. Finally, the monitoring is marked by a continuous supervision of the facilities and equipment, in order to check and predict their aging.

Computer-based measuring devices not only assess the insulating condition but also indicate trending changes of the insulation behavior of electrical facilities.

We believe that condition monitoring guarantees a higher network reliability.

The measured and stored parameters are available at any time, faults can be recognized earlier and the life-time of the equipment can be increased. The supplier will not only have financial benefits but also much more customer satisfaction.

Monitoring makes it possible to supervise and check facilities from any place in the world via computer and telephone lines. The necessary diagnostic tools, i.e. the software as well as the hardware, are developed and produced at Lemke Diagnostics in Germany.

The product line covers from standardized up to customer specific systems, from small, portable devices up to mobile systems that are installed in vans.

