

Partial Discharge Diagnostics

for transformers and cables

with practical measurements in the lab



Part 2: Advanced seminar and localisation

**Deepen your knowledge of
partial discharge measurement**

**Register now for our practice-oriented
and manufacturer-independent seminar**

Partial discharge location

The focus of this seminar is on learning and understanding the techniques for precisely locating partial discharges. The physical background of the two most common methods for locating partial discharges – acoustic measurement and UHF measurement – is explained. The theoretical fundamentals are illustrated with practical examples and measurements in the high-voltage lab, so that participants develop a comprehensive understanding of the challenges and solutions in partial discharge location.

Target group:

The seminar is aimed at project engineers and maintenance technicians who carry out or supervise partial discharge location, e.g. before repairs. It provides the basic knowledge needed to carry out PD localisation independently.

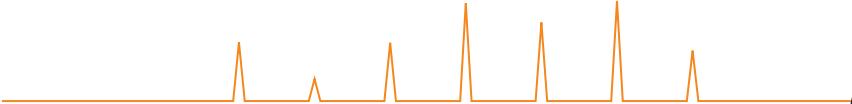
Key topics:

- Review: PD formation, measurement according to IEC 60270
- Acoustic and UHF PD measurement
- Measurement setup and calibration / sensitivity check
- Localisation and interpretation of PD patterns

The focus is on transformers; at the participants' request, cables, GIS or rotating machines can also be covered.

The seminar is manufacturer-independent. It is not an equipment training.

Further information at:
www.energy-support.de/seminare



*The number of participants is limited.
Registrations are accepted in order of receipt.*

Programme

8:15 Check-in
8:30

8:30 Welcome
8:45

8:45 Refresher: PD fundamentals

9:30 What are partial discharges? Where do they occur?
What are the consequences? Apparent charge, limit values

9:30 Fundamentals: PD localisation

10:00 Acoustic measurement, UHF measurement, triangulation, charge level / calibration

10:00 Coffee break
10:15

10:15 Practical measurement in the lab 1/2

11:15 UHF PD measurement, setup, sensitivity check, 2 different defects, localisation, patterns

11:15 Practical measurement in the lab 2/2

12:15 Acoustic PD measurement, setup, sensitivity check, 2 different defects, localisation

12:15 Break: lunch together
13:45

13:45 Interpretation of patterns, localisation

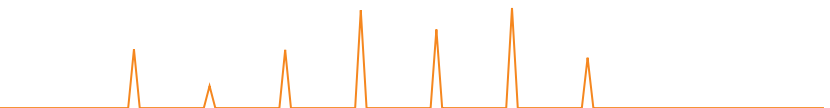
14:15 Defect types and associated pattern images

14:15 Your own PD issues

15:15 Opportunity to discuss PD measurements you bring along

15:15 Conclusion

15:30 Discussion, open questions, farewell



Registration

for Partial Discharge Diagnostics (Part 2) on_____

Venue: Leibniz University Hannover, Institute of Electric Power Systems,
High Voltage Engineering and Asset Management Section
Schering Institute, Callinstr. 25A, 30167 Hannover, Germany

Please send your reply to:

Email: info@energy-support.de or fax: +49 2131 403 9608

Billing address:

Company / department	
Contact person	
Postcode, city, country	
Email	
Phone	

Participant 1:

Surname, first name	
Email	

Participant 2:

Surname, first name	
Email	

Participant 3:

Surname, first name	
Email	

The seminar fee of € 1,390 includes:

- Training documents
- Drinks and refreshments during breaks
- Lunch

Invoicing takes place before the event.

Date, legally binding signature, stamp:

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