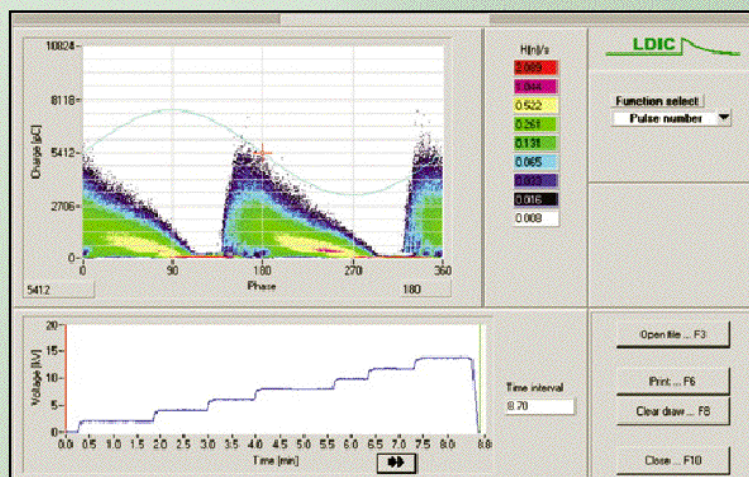


## Partial Discharge Measurement on Rotating Machines

### Adjusted Methods against (on-site) Environmental Disturbances

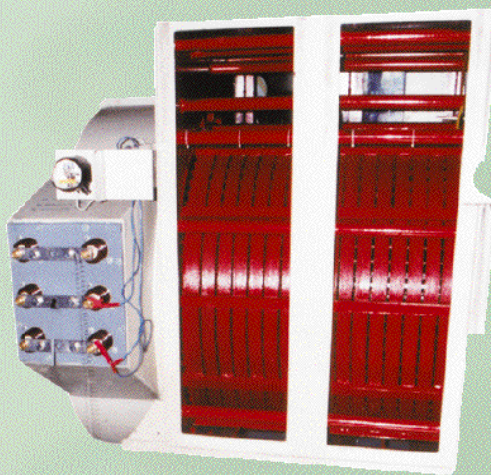
RIV suppression – in time domain  
– in frequency domain

Noise pulse rejection – by compensation  
– by gating  
– by windowing



2D Phase Resolved PD

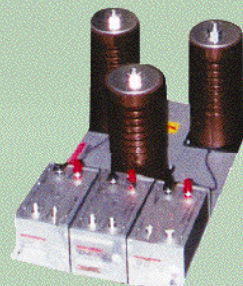
### Evaluation of Aging Process



### PD Decoupling Units

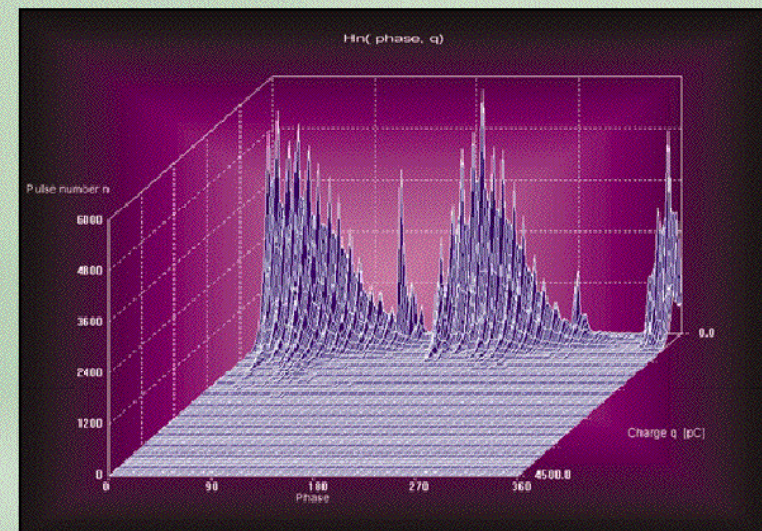


Inductive Field Sensor (L-Sensor)  
Capacitive Field Sensor (C-Sensor)



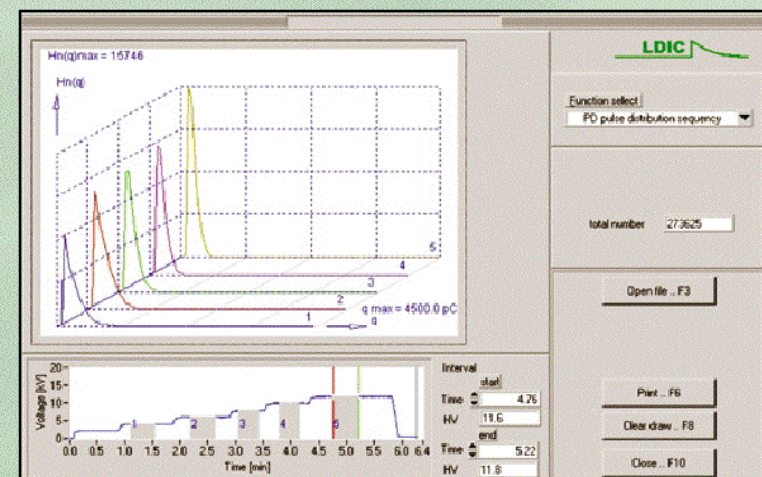
Standard Coupling Unit for  
On-line & Off-line Monitoring

### On-line & Off-line Monitoring

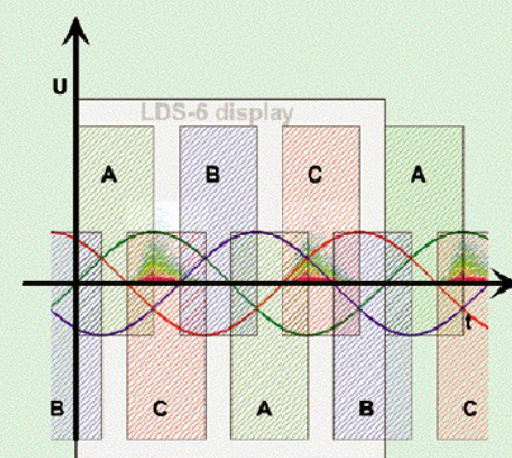


3D Phase Resolved PD Pattern

### Analysis & Diagnosis



PD Pulse Distribution vs. PD Magnitude



### Evaluation of the Apparent Charge

Phase Resolved PD Pattern

Phase Distribution

Frequency vs. PD Charge