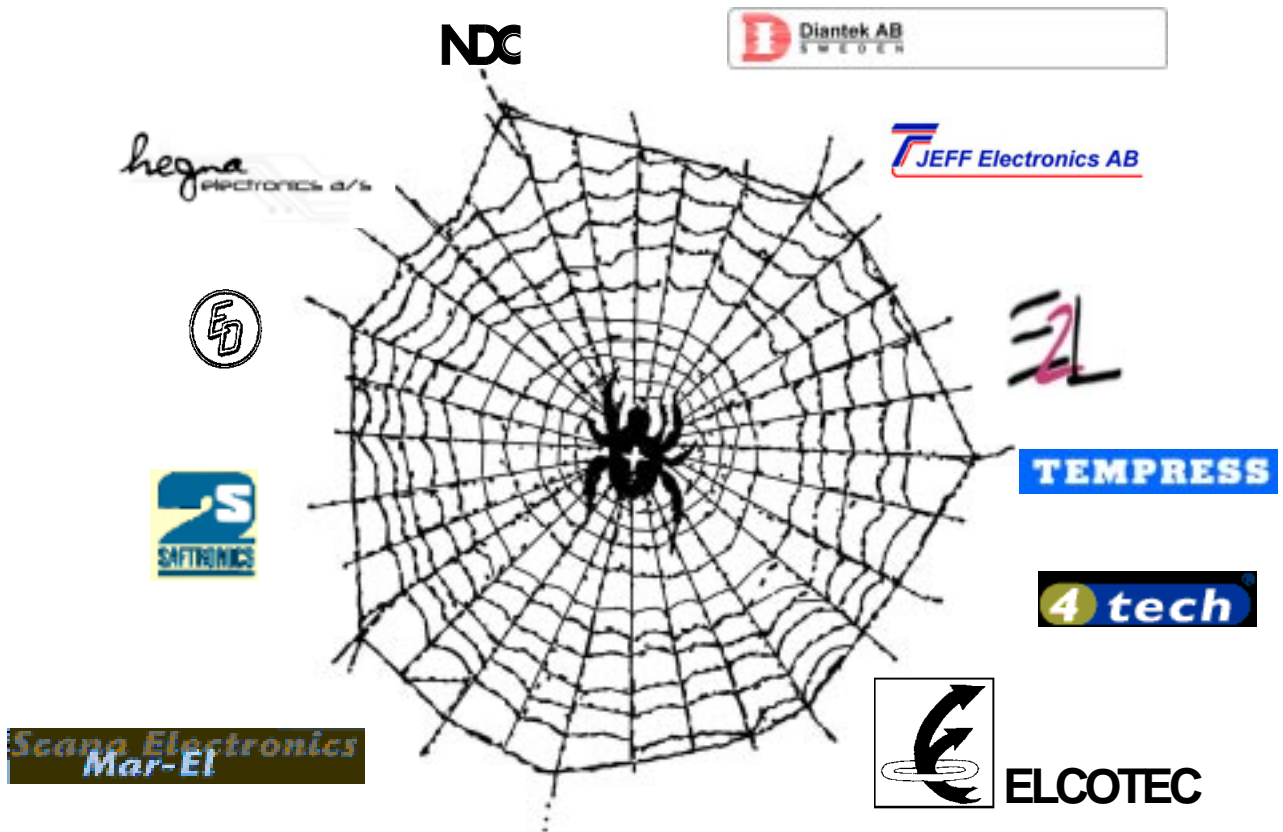


IMSAB COMPONENT GUIDE for industry and shipping



Partial Discharge Monitor ULTRASCAN



ULTRASCAN - Partial Discharge Monitor

manufacture E2L



APPLICATIONS:

E2L have developed a unique monitoring instrument for electricity generating and distributing companies. Use of this equipment increases both electricity supply integrity and customer satisfaction, whilst it improves maintenance quality, and reduces maintenance cost.

Partial Discharge causes damage to high and medium voltage contacts. When a small corona discharge occurs the air dissociates into nitrogen and oxygen, and then recombines as nitric acid - the end result for the equipment is that it corrodes away; the end result for the consumer is that the lights go out; and for the supplier, emergency maintenance has to be undertaken and costs

go up.

Partial Discharge occurring in service comes as a result of ageing, operational stresses and minor imperfections in manufacture becoming more significant with time. It also causes high voltage cables to burst from EMF induced stress.

Without information on the condition of contacts, electricity companies use routine time-interval maintenance which is expensive, and also the quality of maintenance is indeterminate. E2L have developed monitoring equipment specifically for the management of PD driven maintenance.

Close working with UK based power distributors have proven ultrasonics to be a successful solution over other methodologies. The innovative translation of E2L's knowledge base to this particular problem has solved a long-term detection problem as well as providing radical cost savings in the maintenance operations of such plant.

- **In-service deployment without any supply outage**
- **Very rapid installation (12 contactor system should take <10 minits).**
- **Catches PD events over a time period (hand-held equipment often misses this).**
- **Remote, safe monitoring.**
- **Very low susceptibility to external noise.**
- **Strategies developed to filter discrete noise events.**
- **GO/NO-GO test.**
- **Simple to use – minimum training required for maintenance operators.**
- **Fine tuning available based on environmental experience.**

ORDERING INSTRUCTIONS

ULTRASCAN – Portable
ULTRASCAN - Fixed

