

Press release

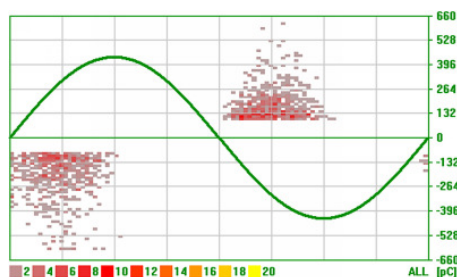
Phase-resolving is added value to VLF cable diagnostics and fault analysis

Analyse partial discharges more accurately

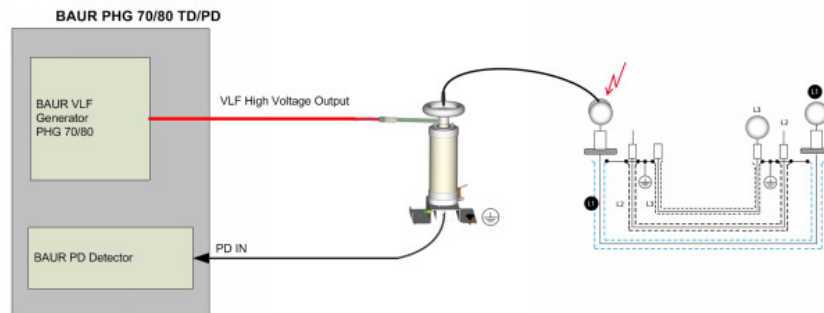
Sulz, 14. January 2013 – With the partial discharge (PD) phase-resolving at 0.1 Hz (VLF, Very Low Frequency), BAUR Pruef- und Messtechnik now offers a unique solution for analysing partial discharges in medium voltage cables, with immediate effect. The optional evaluation solution works in conjunction with the new BAUR system software 3.3 and the cable diagnostics systems PHG 70/80 TD/PD. Thanks to the phase-resolving, users can not only locate partial discharges exactly, but also differentiate between internal and external partial discharges. In this way, you can determine whether the cable fault is due to insulation defects or whether more likely, there is a corona discharge on the surface. While internal partial discharges primarily occur in the zero crossing range of the test voltage (because the highest voltage change takes place at this point), external partial discharges can be typically found at the maxima of the sinusoid. Phase-resolving can also be applied when partial discharges have been measured at several locations in the cable. In this case, the operator determines the fault locations that he wants to examine more closely. Subsequently, the screen displays the sinusoid with the partial discharges occurring there.

For accuracy of results, a constant test voltage, a consistent frequency and a distortion-free sinus shape of the test voltage are a prerequisite - and at BAUR, we take this for granted thanks to the truesinus voltage sources.

The phase-resolving is offered with the BAUR system software 3.3 as an option, for use with the cable diagnostics system PHG 70/80 TD/PD. It can also be upgraded. Further details from all worldwide BAUR partners.



Partial discharges in the insulation, such as electrical trees, primarily occur close to the zero crossing (see image), external partial discharges typically become more frequent at the maximum of the sinusoid. With the help of the optional phase-resolving from BAUR Pruef- und Messtechnik, this becomes more visible and users can limit the type of cable fault better.



With or without phase-resolving: Devices for partial discharge measurement are connected in the same way to avoid additional expense.

More information / Press contact:

**BAUR Pruef- und Messtechnik GmbH
Alexander Gerstner**

Raiffeisenstrasse 8 – 6832 Sulz (Austria)
Tel.: +43 (0)5522 4941-0 - Fax: +43 (0)5522 4941-8055
a.gerstner@baur.at – www.baur.at

**Press'n'Relations II GmbH
Ralf Dunker**

Graefstrasse 66 – 81241 Munich (Germany)
Tel.: +49 (0)89 5404722-11 – Fax: +49 (0)89 5404722-29
du@press-n-relations.de – www.press-n-relations.de