

Press release

Track error sources in live switchgear using the PD-SGS from BAUR

Detect partial discharges without electrically connecting the measuring device

Sulz (Austria), October 2014 – With the PD-SGS, BAUR Prüf- und Messtechnik GmbH presents a handheld device for the quick initial detection of partial discharges in switchgear and cable accessories. The device offers two safe procedures for detecting partial discharges that can be applied during operation – live – without attaching sensors to the cable. Instead, it uses capacitive couplers to detect partial discharge activity that occurs along the metal exterior of the switchgear. The second method works acoustically by detecting corona discharges or discharges on insulator surfaces with the help of noises generated by the partial discharges.

Remote measurement objects can be inspected using the optional parabolic reflector. Owing to the wide measurement range of 0 to 80 dBmV with the capacitive method and -6 to +70 dB μ V during ultrasound measurement, the PD-SGS allows you to detect discharges before a defective insulation can lead to a fault.

The measurement result is presented on the clear and easy-to-read OLED display. The LED traffic light display indicates the next step to the user. Misinterpretations of the measurement result, so-called “false positives”, are eliminated by the automatic noise detection. In both processes, the PD-SGS plays an acoustic signal via the built-in speaker or a headphone that represents the level of the measured values. This allows the user to easily isolate the fault location by moving the device and concentrating on the noise level. The built-in battery enables about 12 hours of operation of the PD-SGS that weighs 300 g.

The PD-SGS will be available from October 2014.





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