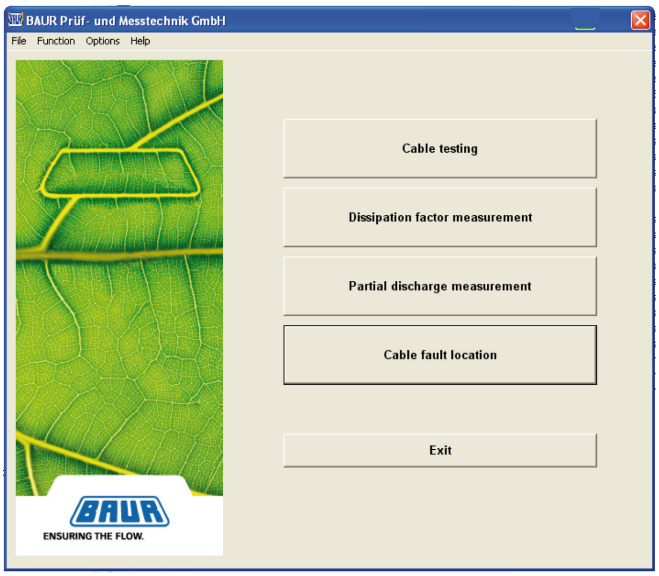
# BAUR System Software 3
## VLF cable test, dissipation factor measurement, partial discharge diagnosis and cable fault location

The BAUR system software is a package for cable testing, cable diagnostics and cable fault location. In combination with BAUR cable fault location, testing and diagnostics systems, it allows efficient monitoring of the condition of cable networks.




### Reliable cable fault location, cable testing and diagnostics

- Best possible basis for cost-optimised, condition-oriented maintenance
- Common data management through comprehensive cable database supports actual and trend analysis
- Conclusive presentation of measurement results

### Features

- Creation of projects and structured storage of logs of various tests and measurements
- Display and tracking of all test and measurement parameters on screen
- Quick intervention in the test and measurement sequence
- Flexible measurement sequences
- Easy and clear evaluation of measurement results
- Efficient and comprehensive test and measurement data management
- Holistic interpretation of measurement results by means of historical maintenance information
- More safety through an extensive cable database
- Collecting and saving additional information on projects
- Menu-driven control of BAUR diagnostics and testing systems with professional, self-explanatory multilingual software
- Complete overview of the quality and aging condition of cable systems and equipment

BAUR GmbH · Raiffeisenstraße 8, 6832 Sulz, Austria · T +43/5522/4941-0 · F +43/5522/4941-3 · headoffice@baur.at · www.baur.eu

# Highlights

## Cable fault location

- Suitable for single and three-phase cable systems
- Measuring ranges over 200 km
- Fully automatic measurement and display of the fault distance through automatic cursor positioning at the fault location
- "Easy mode" for standardised and quick fault location
- "Expert mode" for extended settings and special measurement tasks
- Integrated pre-location methods: Resistance measurement, TDR, (DC-)SIM/MIM, impulse current method, decay method, differential impulse current and differential decay method

## Cable testing

- Three test voltages – true sinus, DC voltage and rectangular wave voltage – from one voltage source
- Automatic test sequences programmable according to standards or user-defined
- Automatic shutdown of the system or burning operation after breakdown (depends on setting)
- More flexibility through "Manual test" mode
- Comprehensive graphical presentation of test results
- Comparative analysis of individual tests on a cable line possible
- VLF test with 0.1 Hz to 0.01 Hz for long cable
- Efficient test voltage and frequency

## Dissipation factor measurement

- Quick and efficient assessment of cable insulation (in few minutes)
- No limitation due to length of connection cable, hence suitable for problematic connection conditions (e.g. pole stations)
- Professional and systematic evaluation of cable insulation
- Possibility for measurement data exchange between the BAUR Software and the VLF generators frida TD and viola TD
- Reproducible comparison measurements, as the diagnostics level does not depend on the cable length
- Measurement range extension for loads ≥ 500 pF (option)
- Individual programming of evaluation criteria, breaking criteria and automatic measurement sequences possible
- Determination of tan delta values at various voltage steps
- Determination of standard deviation of measurement values per voltage step
- Exact measurement results through detection of leakage currents
- Easy evaluation of measurement results with the help of integrated evaluation criteria for various cable types
- Easy to understand numeric and graphic presentation of measurement results

## Partial discharge diagnostics

- Exact location of PD activities on cable insulation, joints and terminations
- Calibration of PD measurement system
- Safe evaluation of PD intensity
- Automatic partial discharge measurement with automatic entry of inception voltage and location of PD sources
- VLF standard test and PD measurement simultaneously
- Reliable location of weak points in the cable even at noise levels through filtering and display of parasitic frequencies (frequency filter)
- Easy and quick evaluation through automatic evaluation mode, measurement data filter and quick access keys
- Clear presentation of PD activities over the entire cable length
- PD phase resolving: precise interpretation of measurement results through presentation of PD level and PD frequency in relation to the phase angle of the test voltage (option)

## Technical data

| General information | |
|---|---|
| Languages | English, Arabic, Chinese (CN), Chinese (TW), Czech, Danish, Dutch, Finnish, French, German, Greek, Italian, Korean, Malay, Norwegian, Polish, Portuguese, Rumanian, Russian, Serbian, Swedish, Spanish, Turkish |

| System requirements | |
|---|---|
| Processor | Min. 1 GHz |
| Working memory | Min. 1 GB |
| Free hard disk space | Min. 2 GB |
| Operating systems | Microsoft Windows 7 |
| Interface | USB 2.0, RS232 |
| Screen resolution | Min. 1024 x 768 |

## Standard delivery includes

- BAUR Software (modules as selected):
  Cable fault location,
  Cable testing,
  Dissipation factor measurement,
  Partial discharge measurement
- User Manual

## Options

**Dissipation factor measurement:**

- Measurement range for loads ≥ 500 pF

**Partial discharge measurement:**

- PD Phase resolving

**Cable fault location:**

- Integrated insulation resistance measurement (3-phase)