EXCOUNT-II is our top-of-the line product combining outstanding looks with the most extensive and powerful features. Included are a variety of surge counting features together with all the essential leakage current measurement functions. EXCOUNT-II enables users to keep track of overvoltages in the network as well as providing state-of-the art on-line condition monitoring of arresters.

The measured data can then be transferred to a computer for statistical analysis. Included with EXCOUNT-II is specially designed software which facilitates download of the measured data from the transceiver and permits analysis and reporting of the collected information.

Surge registration
EXCOUNT-II does more than just count surges. It also registers the date and time as well as amplitude of the surge each time the arrester has discharged a current over 10 A. Time and amplitude measurement gives the user better information about overvoltages in the network and the operation of the arrester.

Leakage current measurement and condition monitoring
EXCOUNT-II gives the user the possibility to measure both the total leakage current as well as the resistive component of the current through the arrester. Measurement of the resistive current gives a good indication of the arrester’s condition and fitness for continued service. The measurement method employed is based on third-harmonic analysis which is considered the most reliable measuring method for condition monitoring according to IEC 60099-5.

Safe and secure
The sensor is housed in a sealed, weather-proof case, suitable for outdoor use and proven to match the short-circuit capability of the arrester to which it is connected. The sensor requires no external power supply as it incorporates its own internal power source in the form of a high-efficiency capacitor automatically charged by solar cells and electric field probe.
EXCOUNT-II
Technical data

General
Climatic conditions | Sealed water-tight design, IP67
Short-circuit capability | 65 kA according to IEC 60099-4
Power supply | Built-in solar cells and field probe (battery alternative for indoor use)

Surge registration
Minimum counting threshold (8/20 µs) | 10 A
Amplitude classification (8/20 µs)
10 - 99 A
100 - 999 A
1 000 - 4 999 A
5 000 - 9 999 A
> 10 000 A

Time stamp | Yes
Time resolution | < 0.5 s
Memory capacity | 1 000 registrations (wrap-around)

Leakage current measurement
Measuring range of total leakage current | 0.2 - 12 mApeak
Measuring range of resistive leakage current (peak level) | 10 - 2000 µA
Measuring frequency range | 48 - 62 Hz

EXCOUNT-II versions
EXCOUNT-II are available for two different frequencies depending on national regulations. Contact ABB for guidance.

Sensor
Model | Frequency
1HSA441 000-A | for 868.35 MHz
1HSA441 000-C | for 916.50 MHz

Sensors for inverted mounting
Model | Frequency
1HSA441 000-D | for 868.35 MHz
1HSA441 000-E | for 916.50 MHz

Transceiver model 1
Application: Measuring total leakage current and surge data
Model | Frequency
1HSA442 000-C | for 868.35 MHz
1HSA442 000-E | for 916.50 MHz

Transceiver model 2
Application: Measuring total leakage current, resistive leakage current and surge data.
Model | Frequency
1HSA442 000-A | for 868.35 MHz
1HSA442 000-D | for 916.50 MHz

External antenna
Model | Frequency
1HSA446 000-A | for 868.35 MHz
1HSA446 000-B | for 916.50 MHz
EXCOUNT-II

Dimensions

Sensor

Transceiver

External antenna
For more information please contact:

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