

# smartCOUNT in comparison



Feature	Simple Surge Counter	Common Arrester Monitor	smartCOUNT
Flexibly applicable and retrofitting to any existing gapless ZnO arrester	✓	✗	✓
<b>Maintenance free</b> / self sufficient power supply	✓	✗	✓
<b>Peak</b> arrester leakage current	✓	✓	✓
Surge <b>counting</b>	✓	✓	✓
<b>Impulse</b> current amplitude measurement	✗	✓	✓
<b>Resistive</b> leakage current measurement	✗	✓	✓
Compensation of <b>temperature influence &amp; voltage harmonics</b>	✗	✓	✓
Automatical data <b>logging</b> and <b>trend curve</b>	✗	✗	✓
Data download with <b>Smartphone</b>	✗	✗	✓
<b>Online data management</b> and visualization	✗	✗	✓
<b>Detect</b> surface pollution, humidity ingress and MOV degradation	✗	✗	✓
Accurate in the interesting <b>low leakage range</b>	✗	✗	✓

## The arrester company.



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# smartCOUNT

The arrester monitor



**TRIDELTA MEIDENSHA**

## Monitoring surge arresters - why?

**smartCOUNT** will make your substation more reliable. Reliable means here: less planned and unplanned shutdowns and total protection of the substation equipment.

Your surge arresters protect primary high voltage equipment against damages from overvoltages. Today's surge arresters are highly reliable protective devices. Anyway a low percentage of surge arresters might suffer from serious unseen problems like degradation, humidity ingress or surface pollution, which can cause unexpected outages and immense maintenance cost.

## Do it the smart way.

**smartCOUNT** reduces planned and unplanned shutdowns by detecting faulty arresters and gives reliable information about their status. It can be installed to **every** gapless ZnO surge arrester and in that way improves the reliability from your new and existing substations. Constantly listening to special requests and requirements of every customer around the world, the international **Tridelta Meidensha** team developed another ground-breaking solution for trustworthy security: **smartCOUNT** is the first one of a new generation of condition monitors, detecting and even distinguishing typical failures in time.

Just install the **smartCOUNT App** on your NFC featured Android phone, pick up the automatically logged data and know what's going on – before it's too late. You will be warned in case of leakage current anomalies; polluted housings, ingress of humidity or metal oxide ageing can easily be detected and distinguished. In short: **smartCOUNT** monitors your surge arrester's condition and detects typical arrester failure modes – simply and clearly. And it is much more affordable than the worst case.

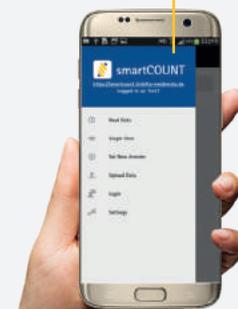
The **smartCOUNT Cloud** offers the total overview about the connected surge arresters and according data. The cloud can be accessed from any device.



The **smartCOUNT Datalogger** performs cycle data acquisition in adjustable intervals. It stores 1000 records which include date, time, temperature, 3rd harmonic and peak  $I/\sqrt{2}$  current as well as 1000 discharge current records.

The **smartCOUNT Transponderpad** allows communication between the datalogger and smartphone app via Near Field Communication.

The **smartCOUNT App** provides different functions for user account handling, configuration and data download of the datalogger. Data can also be conveniently loaded into the **smartCOUNT Cloud** here.



## Your personal benefits

- ✓ **Minimize outages**
  - Detect MOV degradation
  - Detect polluted housing
  - Detected humidity ingress
    - Replace arresters before they fail
- ✓ **Reduce maintenance cost**
  - Cleaning of the arrester only if necessary
    - optimize cleaning intervals
  - Fast data collection with Smartphone
- ✓ **Everything under control**
  - Data is logged automatically
  - Alert function for critical arresters
  - Full overview about all arrester data in one online application
  - Free expert support channel

Are you interested in our smartCOUNT?

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