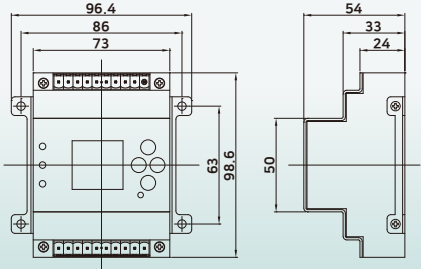


ProCatch* Surge monitoring



Diagram



Characteristic

- Surge counter device that displays and records time / date and current data
- Remote contact warning / SPD inspection warning display
- Transmit Real-time monitoring information to the upper system
- Collect and integrate information for asset management

Data Sheet

Model	ProCatch*	
Electric features	ProCatch I	
Minimum measurable current (8/20μs)	I _{tc}	500A
Maximum measurable current	I _{mcw}	8/20us 100kA, 10/350us 50kA
Power	85 ~ 264VAC, 100 ~ 400VDC	
Maximum number of surge events storable	100	
error range	±20%	
Rated contact capacity	125VAC/0.5A, 250VAC/0.25A	
Communication	RS-485	
Temperature range	-30℃ ~ +70℃	
Degree of protection of enclosure	IP 20	
Enclosure material	STEEL	
Installation method	M3 Bolt	
Maximum diameter of cable passing through sensor	50mm ²	

What’s Surge Black Box?

Lightning damage is increasing due to climate change, and to protect against this, we are installing several surge protection devices (SPD) in addition to the existing SPDs to protect the power inlet. However, due to the nature of the surge protection device, it is not possible to know whether they are protected properly. SURGE BLACK BOX meets the requirements for basic lightning strike counters according to the KS C IEC 62561-6 standard and monitors SPDs. This device recognizes and counts surge currents of 500A or more, surge current magnitude (kA), inflow direction, current leakage to detect deterioration of the SPDs.

Technical features

- Surge monitoring device satisfying KS C IEC 62561-6 standard for lightning strike counters
- Applicable to various points with a separate surge current sensor
- Can check SPD status based on incoming surge and leakage current
- 485 communication transmission for surge inflow and leakage current events
- Surge event : 100 times / Leakage current event : 20 times
- Reset event count and configuration

SBB Network system

Smart service

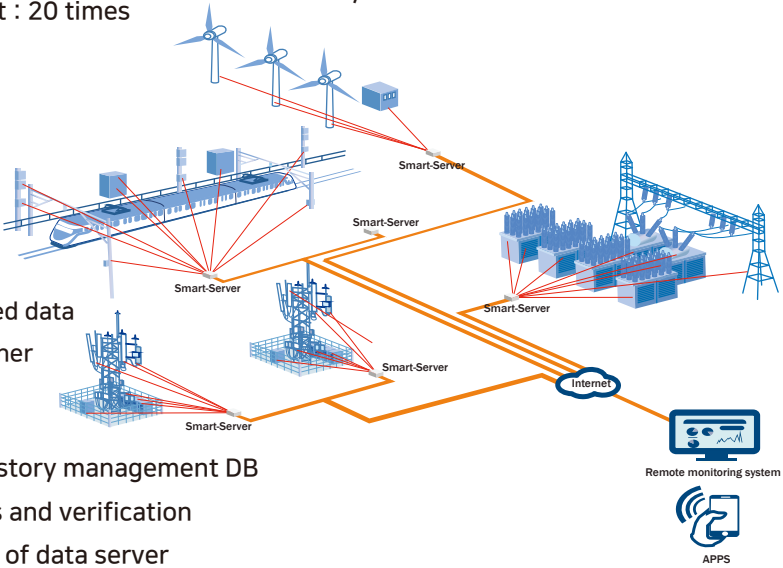
- Integrated control for distributed facilities using the network
- Ability to collect, analyze, store and transmit related data
- Transmit remotely to upper system without any other signal processing

Data processing and server

- Establishment of facility operation status and history management DB
- Algorithm configuration for information analysis and verification
- Linkage with an external server and redundancy of data server

Applied to

- Communication network
- Railroad, subway, transportation system
- Power plant and transmission/distribution facilities, new/renewable energy plant
- Water resources management/production facilities
- Broadcasting facilities, airports and military facilities



Varies Optional Type SBB



Surge Trap II



Surge Gaurd



Surge Lightning Trap



Surge Keeper



Surge Trace