

ICS® 17.5-550 kV Intelligent circuit sensor



HV Switching

The ICS[®], Intelligent Circuit Sensor, brings true digital measurement, control, and automation to the transmission grid.

The ICS is a digital measurement and control system designed as a solutions platform for transmission networks. It is designed to operate in the same harsh environments as transmission substations and power lines. The ICS provides information currently not available on transmission networks on an economic and performance scale unrealized until now.

- The ICS, Intelligent Circuit Sensor, provides real time waveforms captures
- The digital platform allows specialized algorithms to be built into the ICS
- The ICS consists of:
 - Electronic current and voltage sensor
 - Receiving module
 - Substation hardened digital computer
 - Optional analog module for interfacing to electronic relays and RTUs

Ratings

Range of application (kV)	17.5 - 550
Communications	Serial and Ethernet
Protocols	DNP 3.0, Modbus
Current sensing (A)	up to 40.000
Installation	Zero foot print, mounts on switch



Benefits

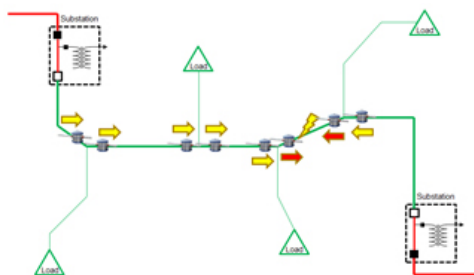
- Zero footprint, can be mounted on overhead structures
- Compatible with digital relays and RTUs
- Easy installation and retrofit
- Automated, remote, or manual switching
- Digital solutions platform for smart algorithms
- Communicates to the network with standard protocols
- Remotely programmable and configurable
- HV sensors do not require batteries and are sealed for life requiring no maintenance.

Key advantages

- Automatic Recloser
- EHV monitoring
- Fault location
- Line sectioning
- Fault direction and distance
- Capacitor bank control
- Transformer protection
- Reactor shunt monitoring

Applications

SMART TAP[®] solution



HV sensor system with fault detection and diagnosis technology, that quickly and correctly identifies the faulted transmission line section

SMART TRIP[®] solution



HV sensor system providing monitoring and fault detection and diagnosis technology to provide a trip signal to a switching or protection device