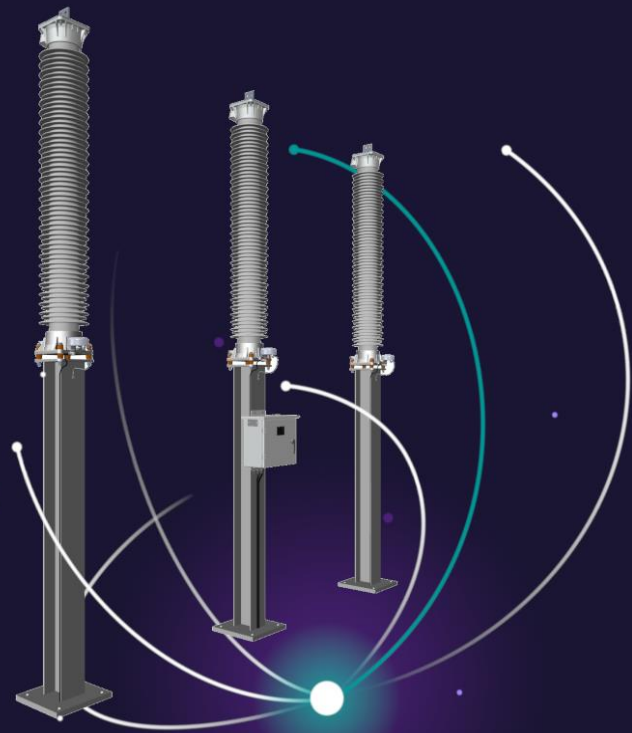


Sensarrester™ 3EX5 090

Born connected

siemens-energy.com/sensproducts



Digitalize your substation equipment with Sensarrester™ monitoring

Surge arresters and other high-voltage products are always positioned at critical nodes in the grid. It can deliver a lot of information if the sensors used get connected. While monitoring equipment can provide a lot of information already, the focus of Sensarrester™ is real time accessibility and trend analysis of multiple parameters.

Added transparency, enhanced productivity and advanced intelligence

Thanks to Sensarrester™ all main electrical functionalities of a surge arrester are now connective, allowing you to check the surge arrester's status via online applications in real time. Together with data analytics, they increase efficiency and sustainability of your assets and operations.

Sensarrester™ makes the difference digital



Digital integrated systems

- Comprehensive digital transmission product portfolio
- Cloud based data analytics platform
- Decisive information on demand anywhere and in real time



Easy connectivity

- Digital gateway offered by default
- Choice of GSM – secure and widely available communication network
- Easy to use apps



Improve business operations

- Added transparency to better manage operations
- Enhanced productivity by pro-active asset management
- Advanced intelligence with smart data analytics via apps



Platform „Fit for Future“

- Scalable platform with open architecture
- Enabled for co-creation and customization
- Compliant with latest cybersecurity standards to secure your data

One Sensarrestor™ (3EX5 090) is able to monitor three surge arresters (3 phases)

GPS / GSM antenna

- + Fleet view (GPS based mapping)
- + Weather information



Ambient temperature

- + Temperature range adherence

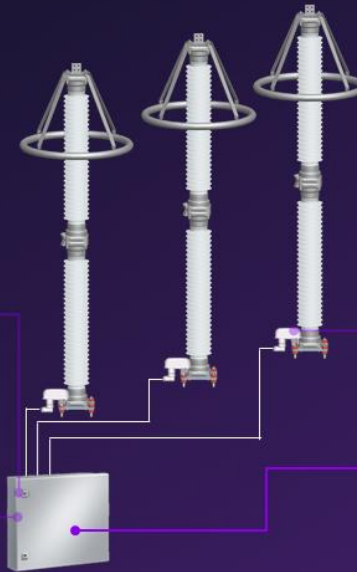


Arrestor currents

- + Impulse registration
- + Leakage current measurement



IoT device



Beneficial applications of Sensarrestor™

- One Sensarrestor™ (3EX5 090) is able to monitor three surge arresters (3 phases)
- Real-time remote access to surge arrester monitoring data
- Wireless cloud access to recorded data via app (IOS & Android) or web browser
- World map view of all Siemens Energy Sensproducts™ within one app (transformers, GIS, circuit breakers, instrument transformers, arresters)
- Dashboard with latest arrester values within each substation:
 - Leakage currents
 - Surge counts
 - Logbook of last events
 - Ambient temperature and weather data
 - Total time of operation
- Trend curve analysis over complete lifetime with warning levels
- Historical data within chosen time period
- Event log showing leakage current curve and weather condition at surge event
- Further app features in development, connecting Sensproducts™ information (e.g. joint view of arrester events linked with circuit breaker operation)
- Alert function for critical surge arrester conditions via Email or push notification
- Maintenance-free for lifetime, automated firmware updates via cloud solution

Securely transmitted data via IoT gateway / State-of-the-art security

Siemens Energy fully understands the importance of the ever increasing cybersecurity requirements. As one of the main founders of the Charter of Trust we ensure that we comply with state-of-the-art security and encryption technologies such as ISO / IEC 27001.

The connectivity of the Sensarrestor™ device is done with a smart and robust IoT gateway securely transmitting a minimum amount of required information to a cloud-based storage and visualization platform, providing operators with a comprehensive and quick overview about their assets. For data transmission to cloud storage, an end-to-end encryption is used. The corresponding data platform is an open ecosystem using Sensarrestor™ data intelligently.





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