Mission Critical Systems
Surge Protection for the Utility Industry

an INFINITY Company
Supply Reliability and Power Quality

Surge protection requirements for the utility industry are intricate and evolving, each requiring a variety of protection levels based on unique applications. From advanced metering infrastructure (AMI) to Smart Grid delivery systems, the requirement for service reliability and power quality is paramount. As leaders in RF, AC, DC, and data line surge protection, PolyPhaser and Transtector are well versed in the specific challenges, requirements and standards necessary for utility operability.

<table>
<thead>
<tr>
<th>Application</th>
<th>Network Component</th>
<th>Value</th>
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<tbody>
<tr>
<td>Telecom</td>
<td>Backhaul, Tower, Shelter, GPS</td>
<td>Protection of Communication networks allows utilities to meet operational requirements through reliable delivery of services</td>
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<tr>
<td>Smart Metering</td>
<td>AMI (advanced metering infrastructure) AMR (automatic meter reading) data collection points</td>
<td>Enables communication between the meter and utility for improved energy efficiency</td>
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<td>SCADA</td>
<td>Sensors, RTU (remote telemetry unit), PLC (programmable logic controller), Backhaul</td>
<td>Infrastructure processes provide large-scale or multi-site remote supervision and control</td>
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<td>DA Distribution Automation</td>
<td>Communications, reclosers, feeder switches, capacitor bank controllers</td>
<td>Improves reliability and efficiency with real-time monitoring and intelligent control</td>
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<td>EMP Filtering, EMI Solutions, GMD/GIC Applications</td>
<td>Substations, telecommunications, GPS command and control/SCADA</td>
<td>Hardens command and control lines against E1, E2 threats</td>
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RF

IS B50, TSX, AL-LSXM, DGXZ

AC

APEX, LS Plus, I2R IEP

Reliable Smart Grid Delivery Systems

Global utilities incorporate surge protection and grounding solutions to ensure communication reliability, power quality and data collection. AMI, SCADA and DA operators trust and depend upon the reliable surge protection solutions PolyPhaser and Transtector Systems provide for Smart Grid delivery.

- Superior protection products engineered to protect data collection and communications applications within global utility networks
- Engineering teams integrate international electrical standards and appropriate suppression technology into both custom and commercial off-the-shelf product designs
- Technical service teams well versed in protection requirements essential for remote monitoring, smart grid operation, power generation and AMI communications
- Dedicated regional staff to assist in beta test evaluations, site surveys, test reports and logistics management
Committed to Service

Meeting our customers’ requirements is paramount to our effort in creating highly satisfied customers. We are the only surge protection supplier that offers a full line of professional services, including:

- **Consulting and Site Audits**: More than 30 years of expertise and professional experience in power and grounding consulting, site audits and educational courses
- **Custom-Engineered Solutions**: Experts in transient technology, EMP and standards required for UL, CE, CSA and RoHS
- **Tailored Product Expedite (TPE) Program**: Designed to provide application-specific surge protection solutions through modification or enhancement of a current product
- **Customer Service**: Dedicated inside sales and customer service teams trained in the unique surge protection requirements founds within the grid