



## Mission Critical Systems

Surge Protection for Oil and Gas

## Reliable and Efficient Power Quality

PolyPhaser and Transtector Systems are industry leaders in the development, design and manufacturing of power and signal integrity solutions for the oil and gas industry. Our sales and engineering teams are versed in the specific challenges, requirements and specifications for this market.

Application	Network Component	Value
SCADA	Transmitters, Sensors, RTUs, PLCs, Telecom Backhaul	Industrial control system required to monitor and control remote equipment.
Exploration & Production	Drilling, Logging, Communications and Signalling Equipment	Process of identifying, extracting, monitoring and controlling oil and gas production.
Offshore Drilling	Communications, Signalling, Satellite, Drilling, and Logging Equipment	A process where a wellbore is drilled through the seabed to extract petroleum.
Wellheads and Gathering Fields	Communications and Signalling Equipment	Location where wells are capped, monitored and gathered together.
Compressor Stations	Control Panels, Communication, Signalling, and Measurement Equipment	Facilitates the transportation of natural gas by compressing it to a density it can be delivered in mass quantity through the pipeline.
Pipeline Metering Stations	Transmitters, Sensors, RTUs, PLCs, Communications	Location where companies hand off the resource to other companies. Both companies measure and meter their gas.
Storage	Transmitters, Sensors, Control Panels	Field instrumentation equipment measures pressure, temperature, and tank level for control point monitoring.
Refining	Control Panels, Communication, Signalling, and Measurement Equipment	Downstream location where petroleum products are processed into their final product. Class 1 DIV 2 ratings are often required.
Security	Access Control and Security Cameras	Security of critical systems and key facilities.

### AC Surge Protection



APEX



MCP



I2R IEP



I2R SA



DRDC 24



DRI 24



DC Defender

### DC Surge Protection

## Principal Surge Protection Supplier for Oil and Gas Industry

Surge protection devices are commonly deployed in numerous applications in the oil and gas sector, thus reducing economic risk due to downtime, lost revenue and equipment replacement.

SCADA	E&P (Exploration & Production)	Fracturing
Pump Jacks	Offshore Rigs	Wellheads and Gathering Fields
Pipeline Compressor Stations	Pipeline Metering Stations	Pumping and Storage
Refining	Motor Control Centers	Transportation

# Superior Protection. Patented Technology. Guaranteed Performance.

Surge Protection Required	Recommended Surge Protection
RF, AC, DC, Data	SX Series, ISB50 Series, I2R Series, DRDC Series, CPX Series, TSJ Series, FSP Series, ALPU Series
RF, AC, DC, Data	SX Series (TSX), MDS Series, I2R Series, APEX Series, LS Plus, DRDC Series, TSJ Series
RF, AC, DC, Data	SX Series (TSX), ISB50 Series, DRDC Series, I2R Series, LSPlus, GB100, TSJ Series, ALPU Series
RF, DC, Data	SX Series (TSX), ISB50 Series, I2R Series, DRDC Series, FSP Series, DPR Series
AC, DC, Data	Apex Series, LS Plus, I2R Series, DRDC Series
RF, AC, DC, Data	SX Series (TSX), ISB50 Series, I2R Series, DRDC Series, TSJ Series, PDS Series, FSP Series, CPX Series
AC, DC, Data	I2R Series, DRDC Series, DRI Series, PDS Series, FSP Series
RF, AC, DC, Data	SX Series (TSX), I2R Series, Apex Series, DRDC Series, ALPU Series, CPX Series
Data	CCTV-PTZ, FSP Series

## Data Line Surge Protection



TSJ



FSP



PDS1



CPX



ALPU

## RF Surge Protection



TSX-NFF



IS-B50LN-C2



AL-LSXM-MA

## 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 for oil and gas customers worldwide.
- **Custom-Engineered Solutions:** Experts in transient technology and standards required for Class I Div 2, ATEX, CSA, UL and CE.
- **Tailored Product Expedite (TPE) Program:** Designed to provide application-specific surge protection solutions, through modification or enhancement of a current product.
- **Technical Support:** Global engineering service teams available to answer application questions, troubleshoot, or assist in the design and development of a custom solution.
- **Customer Service:** Dedicated inside sales and customer service teams trained in the unique surge protection requirements for energy markets.



## About Smiths Power

Smiths Power is a leading supplier of power distribution, conditioning, protection and monitoring solutions for data centers, wireless communications and other critical or high-value electrical systems.

As a family of brands, PDI, ONYX, PolyPhaser, Transtector, LEA, and RO Associates unite under one umbrella to Transform, Distribute, Monitor and Protect™ power in global networks and systems. Our companies provide expertise in consulting, design and manufacturing of power transformers and distribution systems, static switching, power monitoring, RF, AC, DC, data signal and EMP protectors as well as power quality engineering services.

Alongside Smiths Connectors and Smiths Microwave, Smiths Power is part of the Smiths Interconnect division of Smiths Group ([www.smiths.com](http://www.smiths.com)), a global leader in applying advanced technologies for markets in threat and contraband detection, energy, medical devices, communications and engineered components. Smiths Group employs approximately 23,000 people in more than 50 countries.