GIS Monitoring

Disconnector Monitoring
Partial Discharge Monitoring
SF6 Leakage Monitoring
Earthing Switch Monitoring
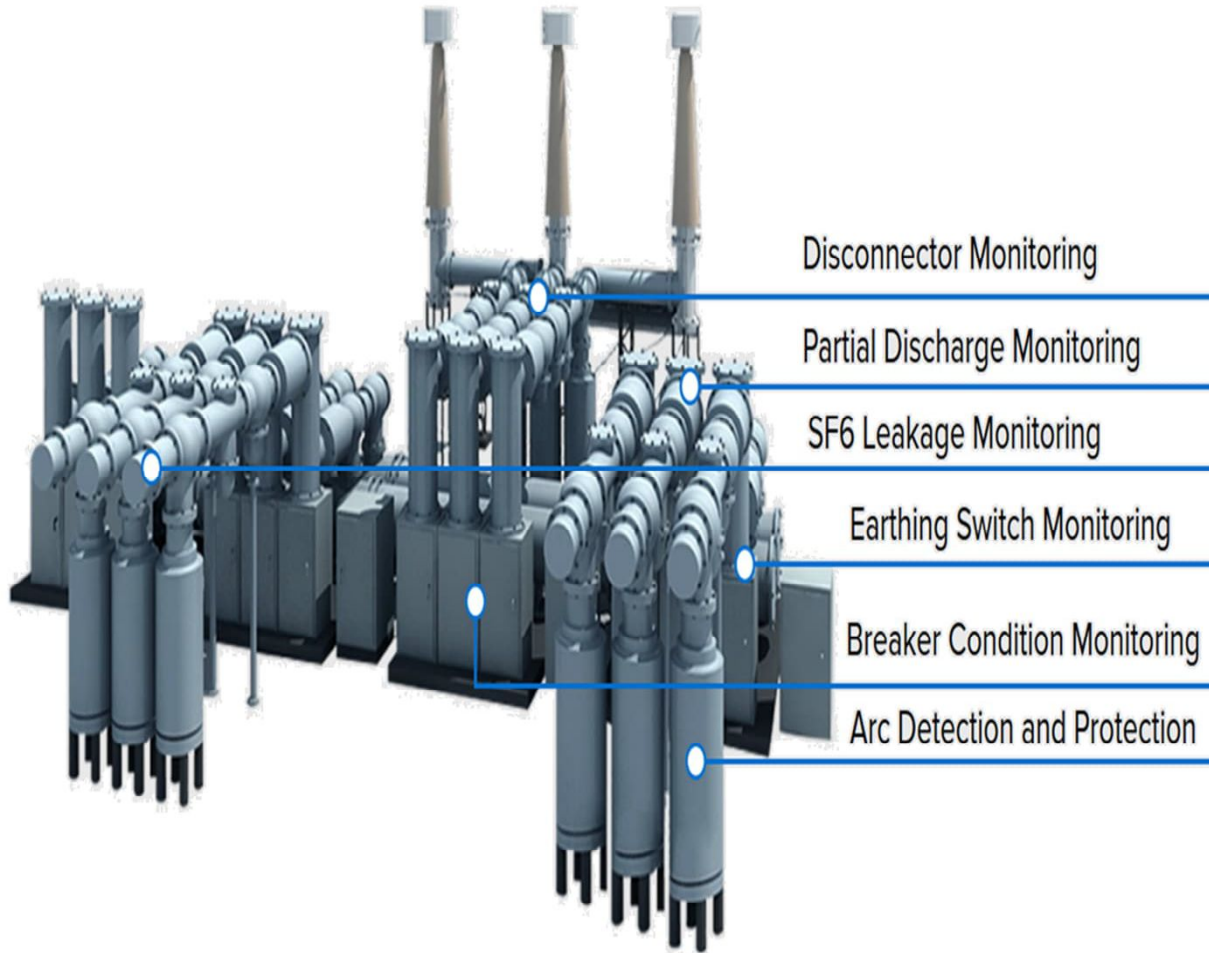Breaker Condition Monitoring
Arc Detection and Protection

Disconnector Monitoring

- Active Parts Temperatures
- Motors Condition
- Travel Curve and Speed during
- Opening and Closing
- Switches / Operating Drive Condition

Partial Discharge Monitoring

- PD Detection
- Fault Characterization
- PD Localization
- PD Severity Analysis
- PD Test and Measurement Services

Earthing Switch Monitoring

- Switches / Operating Drive Condition
- Operating Mechanism
- Motor Condition
- Active Parts Temperatures

Breaker Condition Monitoring

- Operating Mechanism
- Temperature Monitoring
- Trip/Close Coil Condition
- Active Parts Temperatures
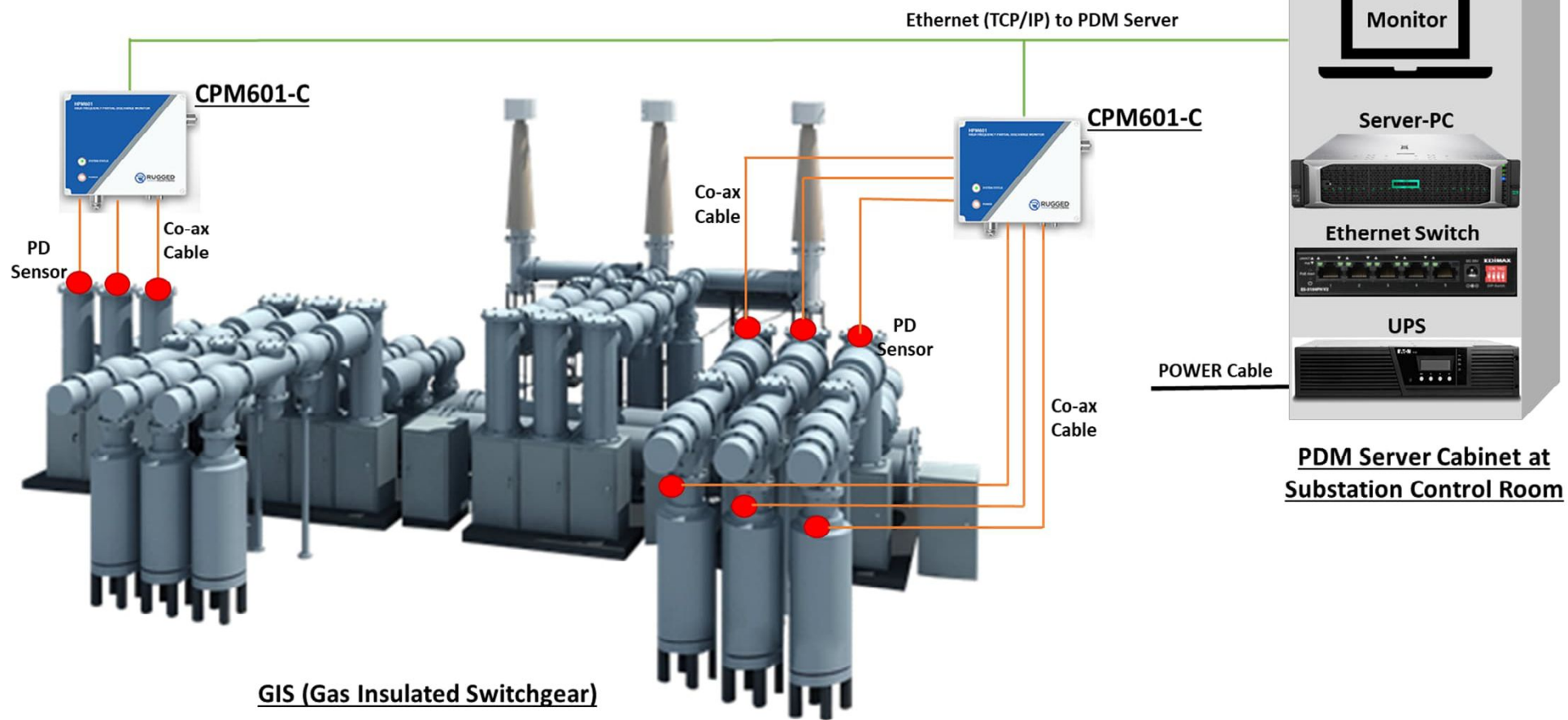- Contact Erosion

SF6 Leakage Monitoring

- SF6 Pressure / Density
- SF6 Leak Rate
- SF6 Time to Refill
- SF6 Time to Lockout
- Moisture / Dewpoint

Arc Detection and Protection

- Arc Detection
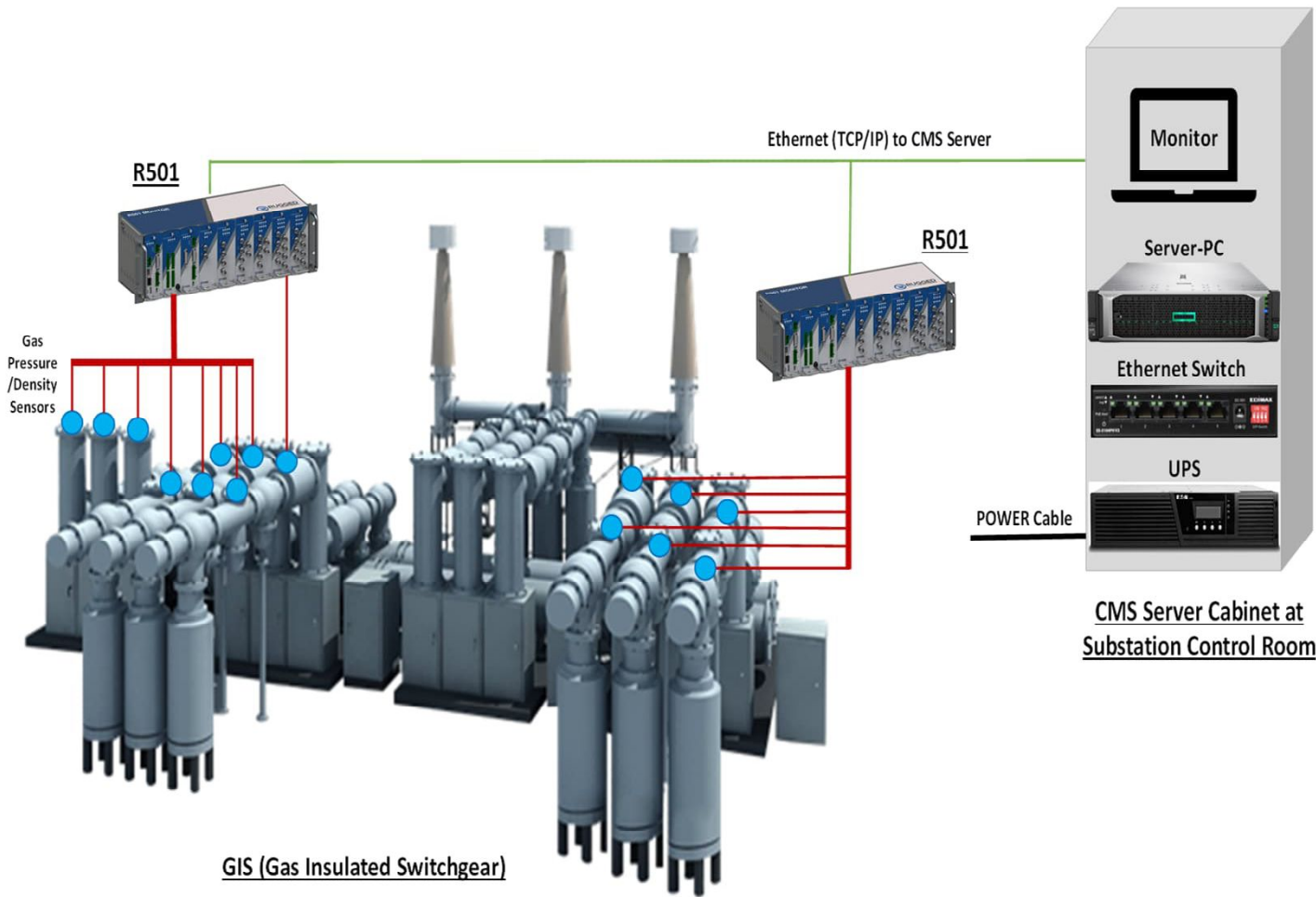- Arc Localization
- HV Testing and Monitoring

GIS Partial Discharge Monitoring

CPM601-C

CPM601-C

Ethernet (TCP/IP) to PDM Server

Monitor

Server-PC

Ethernet Switch

UPS

PD Sensor

Co-ax Cable

Co-ax Cable

PD Sensor

Co-ax Cable

POWER Cable

PDM Server Cabinet at Substation Control Room

GIS (Gas Insulated Switchgear)

GIS SF6 Leakage Monitoring

Ethernet (TCP/IP) to CMS Server

R501

R501

Gas Pressure /Density Sensors

Monitor

Server-PC

Ethernet Switch

UPS

POWER Cable

CMS Server Cabinet at Substation Control Room

GIS (Gas Insulated Switchgear)

- **Gas Pressure / Density Sensors**
  - Our solution is compatible with all Pressure, Density and Humidity sensors available in the Market
  - The sensors must have 4-20mA or Modbus (RS-485) output
- **Data Acquisition System: R501 Monitor**
  - Multichannel datalogger for various kinds of Analog and Digital signals
  - Expandable to 256 channels
  - Also capable to monitor Current, Voltage for GIS condition monitoring
  - Flexible to integrate Fiber Optic Temperature sensors for cable termination temperature monitoring
- **SF6 Leakage Monitoring Software: Advance Analytics with**
  - Predicting Time to Refill, Time to Lock out, Refill quantity
  - Advance notification tools for maintenance scheduling