

Electrical Safety, condition monitoring and testing solutions



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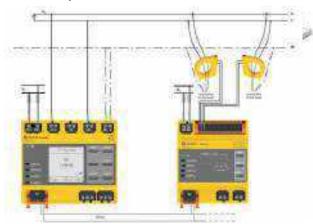




Online Insulation Monitoring with Automatic Fault Location System in Ungrounded (IT) Systems from 12V upto12kV

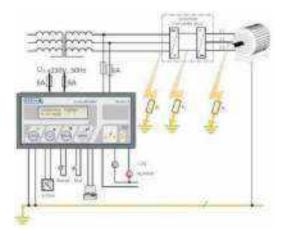


Insulation monitoring with fault location system in AC & 3AC system from 20V to 760V



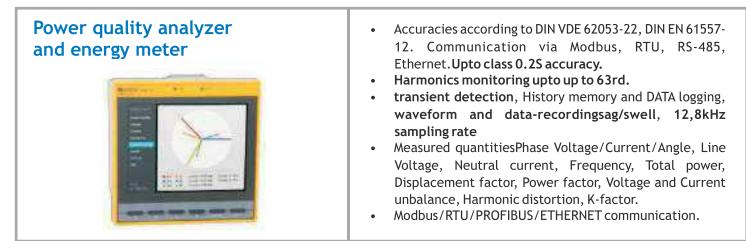
- Monitors the insulation resistance of the complete galvanically connected system using patented AMPPLUS technology.
- Displays the insulation resistance value in $K\Omega$ and gives an alarm when $k\Omega$ falls below critical alarm value. Pre-alarm function gives advance information about slowly developing fault.
- Automatically locates the faulty feeder for upto 800V.
- Gives accurate results without spurious alarms in AC/ 3AC/DC systems as well as mixed AC/DC systems like VFDs.
- Central administration via LAN/VAN, remote monitoring via PC or PLC, SCADA.
- Microprocessor based relay with History memory, failsafe Connection monitoring etc.

Insulation monitoring in variable frequency drives



Suitable for monitoring and locating insulation resistance/ earth fault in all ungrounded applications particularly in Ungrounded 220V/48V DCDBs in Power generating stations/transmission/ Distribution; Ungrounded 110V/220V/48V/24V DCDBs in Oil& Gas plants/petrochemical plants; Ungrounded power supplies in PLC/SCADA applications, Ungrounded power distribution in ships and offshore vessels, ungrounded high voltage loads/motors, Ungrounded Variable frequency drives, Ungrounded DC Drives, Ungrounded generator excitation system, Ungrounded Generator rotor earth fault monitoring, ungrounded control and instrumentation systems, ungrounded wind turbines, ungrounded solar inverters, Insulation monitoring in standby loads etc.

System is recommended according to IEC60364-4-41, IEC61557-8, IEC61557-9.



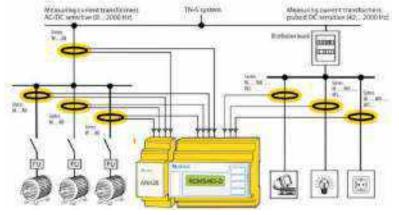




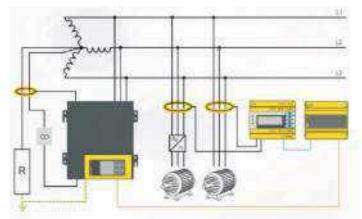
Online Residual Current Monitoring System for grounded (TN) systems.

To be used in all grounded applications whenever safety, availability, quality & reliability of electrical power is of prime importance.





NGRM700 Neutral Grounding Resistor Monitor



Measuring and monitoring relays

- Monitors residual / leakage current using TRUE RMS measurement principle, displays the value in mA.
- Two separate adjustable alarm set-points for prealarm and critical alarm/tripping.
- Automatically locates the faulty feeder.
- Measurement range 5mA to 20A, 0Hz to 2000Hz.
- Monitors all harmonic components of leakage currents along with THD as well as DC component.
- Gives accurate results without spurious alarms in AC/ 3AC/DC systems as well as mixed AC/DC systems like VFDs.
- Central administration via LAN/VAN, remote monitoring via PC or PLC, SCADA.
- Microprocessor based relay with History memory, failsafe Connection monitoring etc.
- In confirmation with IEC60364-4-41, IEC62020, IEC61557-6

The NGRM700 neutral grounding resistor monitor measures the resistance of the NGR for High Resistance Grounded Systems (HRG). Its monitoring capabilities include NGR current, voltage and continuity, phase-to-ground voltage. The ideal relay to protect the grounding system and to provide main or backup ground-fault detection. The relay can connect to a communications network and stores data onboard for local or remote viewing.

The NGRM indicates ground-fault occurence and phase voltages. When a fault occurs it can be used to activate a pulsing ground-fault location system. Combining the NGRM700 with RCMS multi-channel ground-fault relays can provide a quick method of determining the location of the fault.

- 230
- Voltage monitors having functions such as Under-voltage /overvoltage, phase sequence, phase balance, phase asymmetry and frequency monitoring.
- Current monitors having functions under current and over current.
- TRUE RMS measurement principle, Digital display, 4... 20mA output of measured value.
- Two separate adjustable alarm set-points for pre-alarm and critical alarm/tripping. Or may be used for different parameters like under-frequency and over voltage in voltage monitors.
- Microprocessor based relay with History memory, failsafe Connection monitoring etc.
- High level of accuracy and reliability.

Portable Earth Fault locator system for Grounded and Ungrounded system



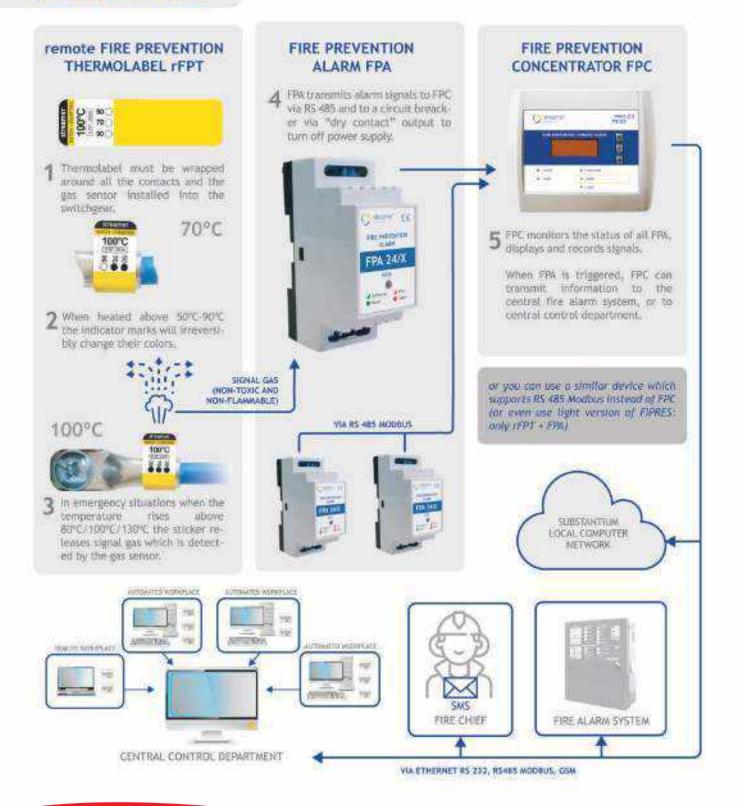
- Portable ground fault location system for ungrounded systems: AC 42...460Hz 0...790V / DC 0...960V
- Works while systems is online or offline
- Use in main and control circuits
- Backlit LCD display ,3*16 characters
- Test current from 1mA to 25mA
- Also suitable for measurement of leakage currents and locating earth faults in grounded systems.
- Measurement of harmonic components of leakage currents upto 8th harmonics along with total harmonic distortion





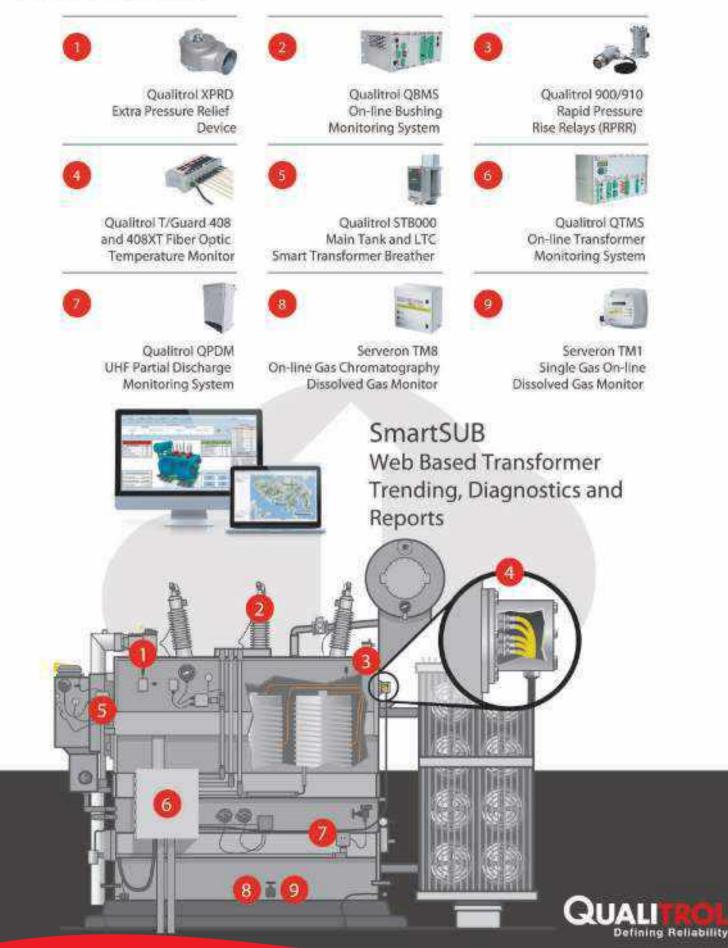


HOW IT WORKS





QUALITROL TRANSFORMER MONITORING



QUALITROL GAS INSULATED SWITCHGEAR MONITORING

for GIS

DMS PDMG-RH

Qualitrol 609 PDM

Transformer and GIS Partial Discharge Monitor

Partial Discharge Monitor





Oualitrol iSGM

Qualitrol PPDM

Transformer and GIS Portable

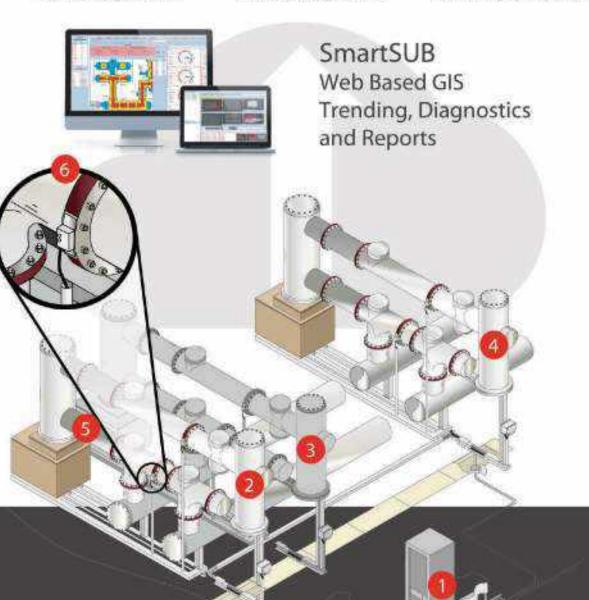
Partial Discharge Monitor

On-line Intelligent SF₆ Gas Monitoring System

AKM 38 Series Large SF ₆ Gas Density Monitor



UHF PD Sensors Barrier & Window (for Retrofit) and Internal (for New GIS)









EIG Power Quality Meters



- Ideal for Smart Grid, Critical Metering and Power Quality Sensitive Applications.
- IEC 61000-4-30 Class A Edition 3 Power Quality Certification
- Sample Rate : 512/1024 Samples/Cycle
- 50 MHz High Speed Transients capture
- Memory : 512 MB/1GB/4GB
- Resilient Cyber Security
- Two Independent, separately Addressable Ethernet ports
- Multiport Communication, I/O and Remote Displays
- Phasor Measurement Unit (PMU)
- Field Upgradeable with V-Switch[™] Technology

Shark MP 200—Data Logging Multipoint Energy Meter

- 0.5% ACCURACY Class Energy measurements
- Save Space by Metering 8 Three Phase or 24 Single Phase circuits with One Unit.
- Reduce Energy Costs THROUGH Submetering, Peak Demand Alert and Detailed Usage Optimization.
- Two Historical logs provide up to 64 Parameters and up to 7 years of Logging.
- Communicate via Simultaneous Ethernet and WiFi, RS485, or USB
- Optional Touch Screen HMI Display for Remote Read
- Collect and Analyze Submetering Data in the Cloud, via optional software.
- Field Upgradeable with V-Switch[™] Technology



Portable Online partial discharge monitoring equipment for Motors, Generators,

The durable Iris Power Epoxy Mica Capacitors (EMCs) are permanently installed (minimum one per phase) as close as possible to the equipment to be monitored to maximize sensitivity. They are designed to detect Partial Discharge (PD) activity in electrical equipment (AC motors, generators, switchgear and dry-type transformers) while not imposing on the machine's operation or reliability in any way.

For testing The operator connects low voltage coaxial cable from the Iris Power TGA-B portable instrument to a coupler termination box. The TGA-B instrument is then connected to a control computer that runs the PDLight Pro and PDView software using a USB or Ethernet cable.

The test is initiated through the PDLight Pro software which automatically collects the partial discharge data while the machine is running and without any interference to normal operation of the generator.

Iris Power MDSP3 Current Signature analyzer

The Iris Power MDSP3 detects rotor cage winding faults i.e. broken rotor bars, cracked shorting rings, die-cast manufacturing faults, and unequal air gaps as they are the causes of many mechanical and electrical failure mechanisms in induction motors.

Iris Power MDSP3 is developed by combining advanced current signature analysis algorithms to accurately predict the operating slip from the measured current.

Underground cable route tracer, Precision Locators, cable and pipe locator

Damaging buried utilities can be dangerous very expensive. Radiodetection offers two ranges of cable and pipe locating tools to reflect the range of legislation and best-practice in different countries.

Precision Locators RD7200 and RD8200 ranges are designed to be used to accurately locate a wide range of buried utilities in a wide range of situations.

Cable Avoidance Tool is an easy-to-use but powerful tool to avoid cable strikes and thus preventing accidental damage to underground services when excavating.

Technology driven best on-site practise

- Encourage correct locator handling for improved detection
- Monitor field operations through the automatic usage logging feature
- Proof of work to differentiate your operations from your competition and add value to your clients

Ergonomic design, premium quality

- Rugged yet light weight and ergonomic
- Designed and built to the highest standards in Great Britain
- Self Test for confidence and trust in your locator measurements











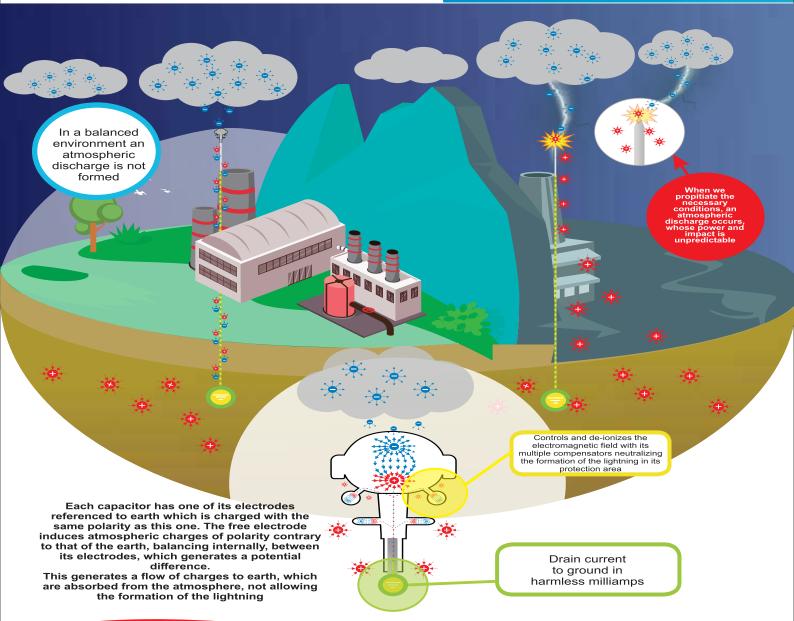




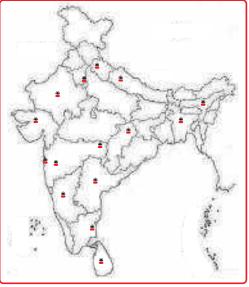


Advance Lightning Protection System

In 1916 Nikola Tesla in his patent No. operating principles of a 1,266,175 mentioned the primitive device based on the principles that underpin our developments, explaining the inconveniences caused by the lightning rods, which instead of protecting property and people, attracted the rays increasing the feasibility of electric discharges and consequently the risks that they entailed. New materials and designs, added to years of experience, have allowed us to improve the experiences of the undisputed scientist Nikola Tesla, evolving in the protection of atmospheric phenomena.







Head Office :

308 / 309 Devraj Mall, Opp. Madhuram Hall, Hari Shankar Joshi Road, Maratha Colony, Dahisar (E), Mumbai - 400 068. Tel. : +91-22-28481518 / 19 • Fax.: +91-22-28481519 E-mail:om@omtechnicalsolutions.com

Authorized Representative