



Electrical Safety, condition monitoring and testing solutions



PRODUCT PORTFOLIO

Electrical Safety, condition monitoring
and testing solutions



Renewable
Energy



Power Generation,
Transmission &
Distribution



Oil & Gas



Industries



Railways



Mines

OM TECHNICAL SOLUTIONS

We offer products and services focusing on our core principle of ensuring highest level of Electrical Safety, reliable testing and online condition monitoring solutions. Our systems and solutions help you in planning your condition based maintenance. Thereby reducing cost of sudden shutdowns, failures and accidents. Using advanced monitoring techniques and timely condition based maintenance, increases service life of assets and thereby reduces cost of operation to a significantly low level.

We have partnered with worlds most reputed, technologically advanced and world market leaders for providing best products and services to our customers.

We have developed in-house sales, service and customer support teams which ensures maximum customer delight.



I N D E X

SR. NO	DESCRIPTION	PAGE NO
1.	Bender Condition Monitoring Solutions Online Insulation Monitoring with automatic fault location system, Residual Current Monitoring System, NGR Monitoring etc.	04.
2.	Synthetic Ester Transformer Fluid Fire safe & Biodegradable	06.
3.	Transformer Condition Monitoring Online Dissolved Gas Analyzers, Online Partial Discharge Monitors, Smart Breathers, Online Bushing Monitor.	07.
4.	GIS - Gas Insulated Switchgear Condition Monitoring Solutions Online Partial Discharge Monitors, Portable Partial Discharge Monitor, UHF Partial Discharge Sensor, SF6 Gas Density Monitor.	08.
5.	Generator Condition Monitoring Solutions Online Partial Discharge Monitors, Portable Partial Discharge Monitor, Partial Discharge Coupler, End Winding Vibration Monitors, Shaft Monitoring.	09.
6.	Transformer Testing & Measuring Equipments Single/ Three Phase TTR, Multifunctional Substation Test Kit. Battery Load Test Kit.	10.
7.	Advanced Lightning Protection System	12.
8.	Power Quality Meter & Energy Meter	13.
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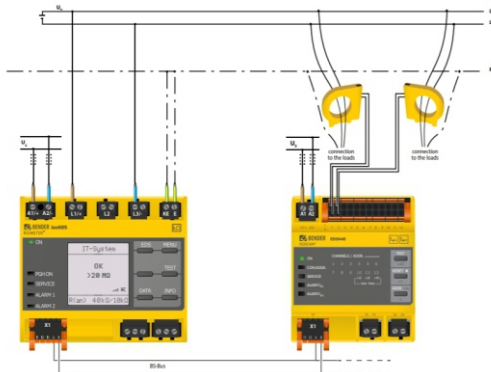
ONLINE INSULATION MONITORING

Online Insulation Monitoring with Automatic Fault Location System in Underground (IT) Systems from 12V upto 12kV

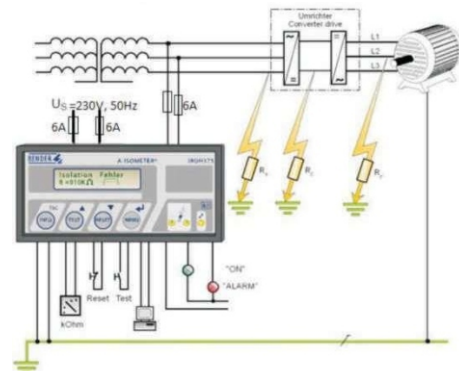
- Monitors the insulation resistance of the complete galvanically connected system using patented AMP PLUS technology.
- Displays the insulation resistance value in K Ω and gives an alarm when K Ω falls below critical alarm value. Pre-alarm function gives advance information about slowly developing fault.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



Insulation Monitoring with Fault Location System in A & 3AC System from 20V to 760V



Insulation Monitoring in variable frequency drives



Suitable for monitoring and locating insulation resistance/ earth fault in all ungrounded applications particularly in Ungrounded 220V/48V DCDs 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.

Power Quality Analyzer and Energy Meter



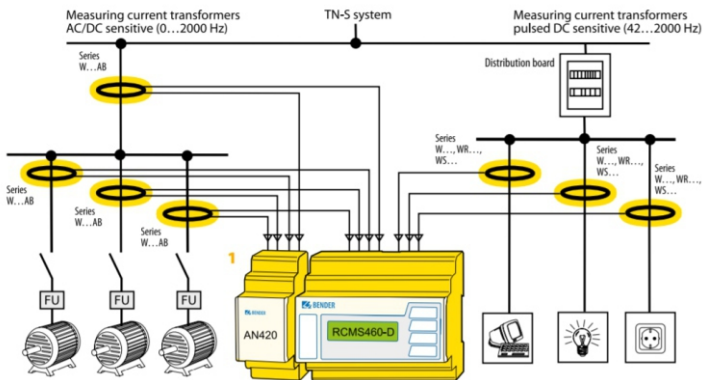
- Accuracies according to DIN VDE 62053-22, DIN EN 61557-12. Communication via Modbus, RTU, RS-485, Ethernet. Up to class 0.25 accuracy.
- Harmonics monitoring up to 63rd.
- Transient detection, History memory and DATA logging, waveform and data-recordingsag/swell, 1,2,8kHz. sampling rate.
- Measured quantities Phase Voltage/Current/Angle, Line Voltage, Neutral current, Frequency, Total power, Displacement factor, Power factor, Voltage and Current unbalance, Harmonic distortion, K-factor.
- Modbus/RTU/PROFIBUS/ETHERNET communication.

ONLINE RESIDUAL CURRENT MONITORING

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

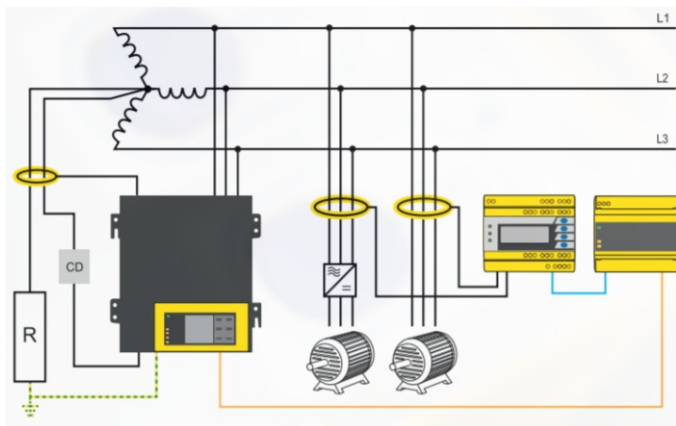
To be used in all grounded applications whenever safety, availability, quality & reliability of electrical power is of prime importance.

Example for a design of a - minimum system consisting of an RCMS460-D and 12 measuring points



- Monitors residual / leakage current using TRUE RMS measurement principle, displays the value in mA. Two separate adjustable alarm set-points for pre-alarm 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, EC61557-6.

NGRM700 Neutral Grounding Resistor Monitor



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 occurrence 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.

Measuring & Monitoring Relays



- Voltage monitors having functions such as Under-voltage /overvoltage, phase sequence, phasebalance, 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.

SYNTHETIC ESTER OIL FOR TRANSFORMER

MIDEL protects life, property and the environment. It saves money while enabling innovation. It's MIDEL. Its safety inside. Developed in the 1970s, MIDEL 7131 is today used in thousands of new transformers to increase safety. Over the same period, MIDEL 7131 has gained an excellent reputation as a cost effective retrofit fluid for the replacement of flammable mineral oil.

INCREASED FIRE SAFETY

- 100% fire safety record
- High fire point (>300°C) - K class classification
- K3 classification (IEC 61039)
- Suitable for indoor, outdoor and underground installations

GREATER ENVIRONMENTAL PROTECTION

- Readily biodegradable
- Not detrimental to activated sludge in biological treatment plants

IDEAL SOLUTION FOR COLD CLIMATE

- Very low pour point: -56°C

EXTENDS TRANSFORMER LIFE

- Absorbs large amounts of moisture with no reduction of breakdown voltage (up to 600ppm)
- Allows moisture to migrate from cellulose into the fluid, thus extending cellulose life
- Very high saturation limit (2,700 ppm @ 20°C) making precipitation of free water virtually impossible



MIDEL 7131
Protecting lives, the environment and property since the 1970s



SYNTHETIC ESTER ADVANTAGES

- Superior oxygen stability
- Flexible - used in non free-breathing and breathing systems
- Proven up to 433kV
- High performance in cold climates

ENABLES INNOVATION

- Allows for compact transformer design
- Option to run at a higher temperature. for a standard lifetime
- Provides a higher power output, without the need for high temperature insulation

		IEC 61099	MIDEL 7131
Property	Test Method	Un-used new fluid property requirements	Typical Values
Physical			
Colour	ISO 2211	Max. 200 Hazen	125
Appearance		Clear, free from water and suspended matter and sediment	Clear, free from water and suspended matter and sediment
Density at 20 ° C (kg/dm ^{3})	ISO 3675 or ISO 12185	Max. 1	0.97
Kinematic Viscosity (mm ^{2} /sec)	ISO 3104		
at 40°C		Max. 35	29
at -20°C		Max. 3000	1440
Flash Point PMCC (°C)	ISO 2719	Min. 250	260
Fire Point (°C)	ISO 2592	Min. 300	316
Pour Point (°C)	ISO 3016	Max. -45	-56
Crystallization	IEC 61099 (2010 Annex A)	No crystals	No crystals
Electrical			
Dielectric Breakdown (kV)	IEC 60156	Min. 45	>75
Power Factor at 90°C	IEC 60247	Max. 0.03	<0.008
DC Resistivity at 90°C (G Ωm)	IEC 60247	Min. 2	>20
Chemical			
Water Content (mg/kg)	IEC 60814	Max. 200	50
Acidity (mg KOH/g)	IEC 62021-1 or IEC 62021-2	Max. 0.03	<0.03
Oxidation Stability (164hr)	IEC 61125C		
Total Acidity (mg KOH/g)		Max. 0.3	0.02
Total Sludge (% mass)		Max. 0.01	<0.01

TRANSFORMER MONITORING SOLUTIONS

1



Qualitrol XPRD
Extra Pressure Relief
Device

2



Qualitrol QBMS
On-line Bushing
Monitoring System

3



Qualitrol 900/910
Rapid Pressure
Rise Relays (RPRR)

4



Qualitrol T/Guard 408
and 408XT Fiber Optic
Temperature Monitor

5



Qualitrol STB000
Main Tank and LTC
Smart Transformer Breather

6



Qualitrol QTMS
On-line Transformer
Monitoring System

7



Qualitrol QPDM
UHF Partial Discharge
Monitoring System

8



Serveron TM8
On-line Gas Chromatography
Dissolved Gas Monitor

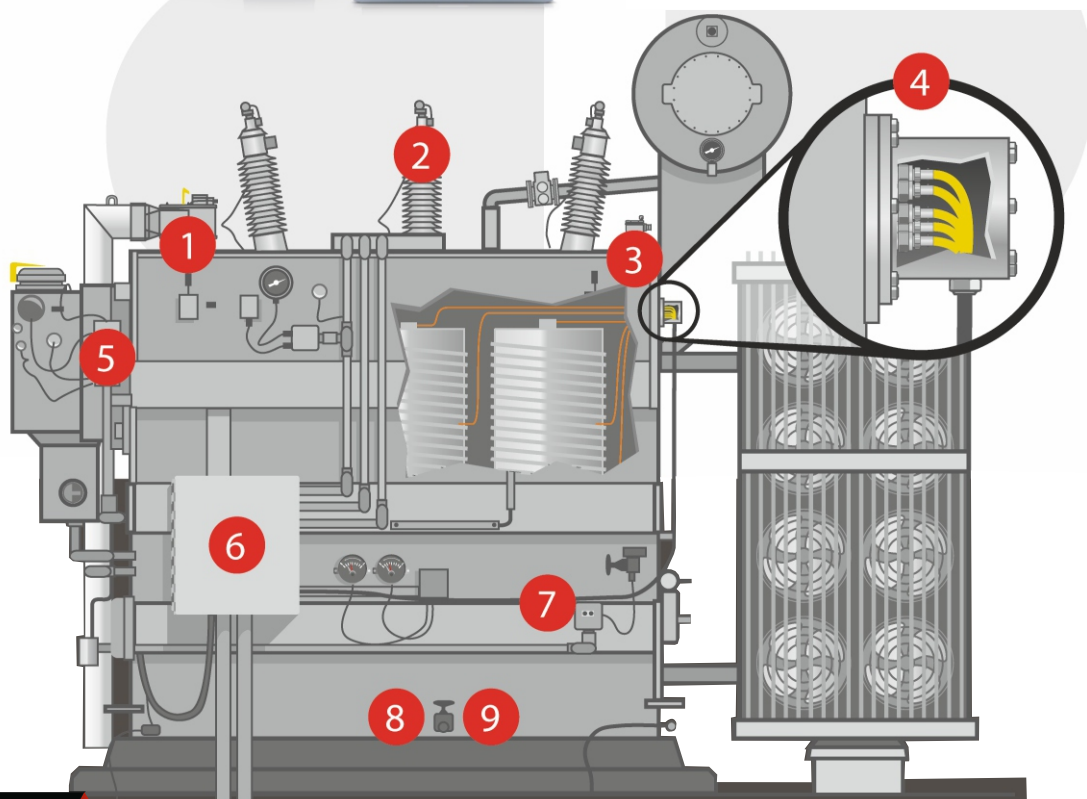
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Serveron TM1
Single Gas On-line
Dissolved Gas Monitor



SmartSUB Web Based Transformer Trending, Diagnostics and Reports



GAS INSULATED SWITCHGEAR MONITORING

1



DMS PDMG-RH
Partial Discharge Monitor
for GIS

2



Qualitrol iSGM
On-line Intelligent SF
Gas Monitoring System

3



AKM 38 Series
Large SF₆
Gas Density Monitor

4



Qualitrol 609 PDM
Transformer and GIS
Partial Discharge Monitor

5



Qualitrol PPDM
Transformer and GIS Portable
Partial Discharge Monitor

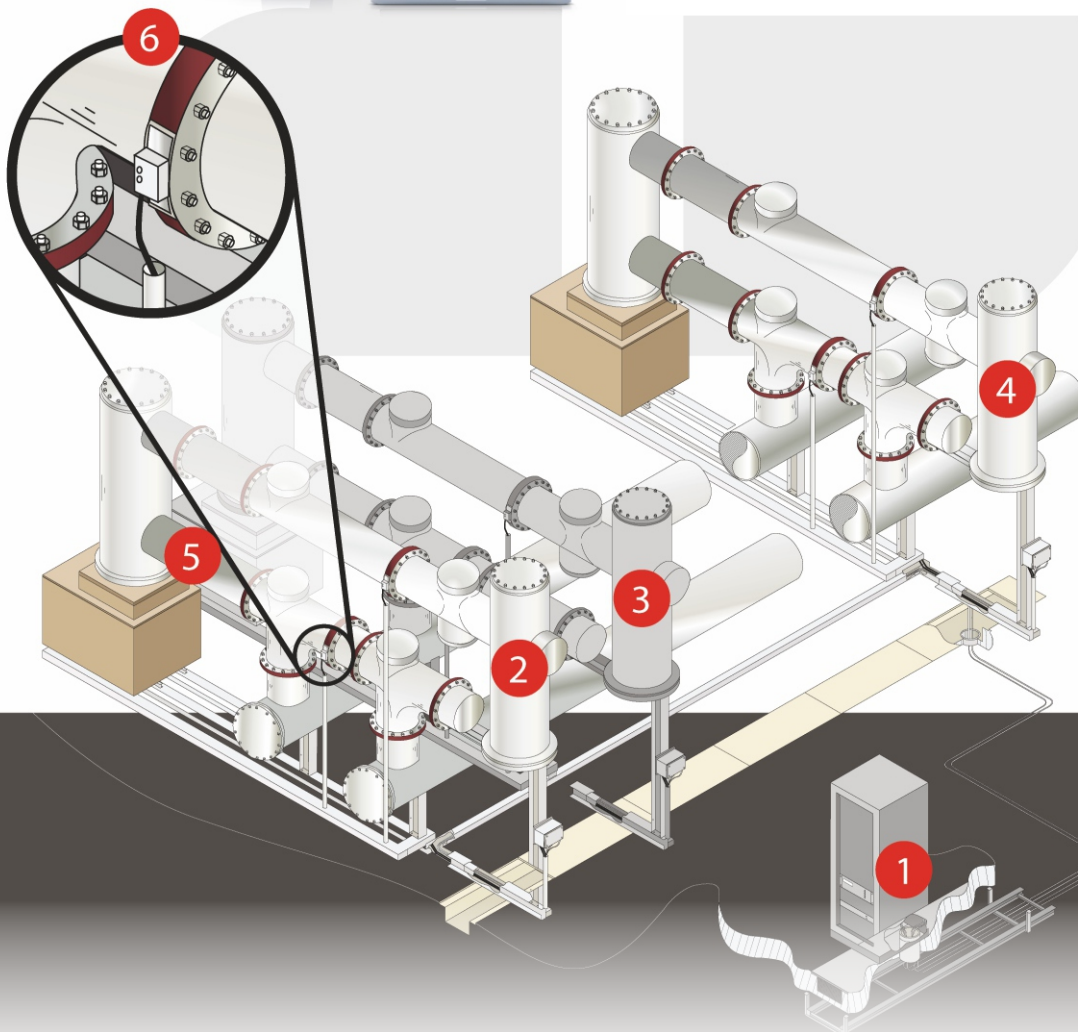
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UHF PD Sensors
Barrier & Window (for Retrofit)
and Internal (for New GIS)



SmartSUB
Web Based GIS
Trending, Diagnostics
and Reports

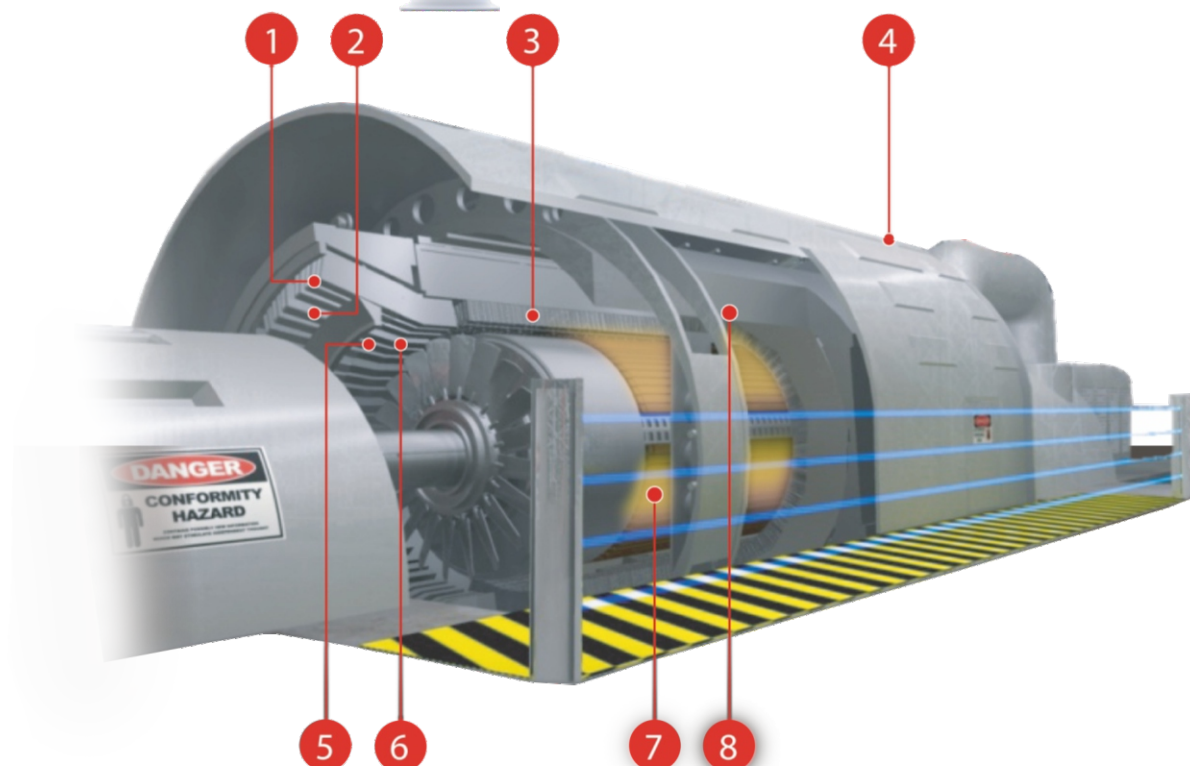


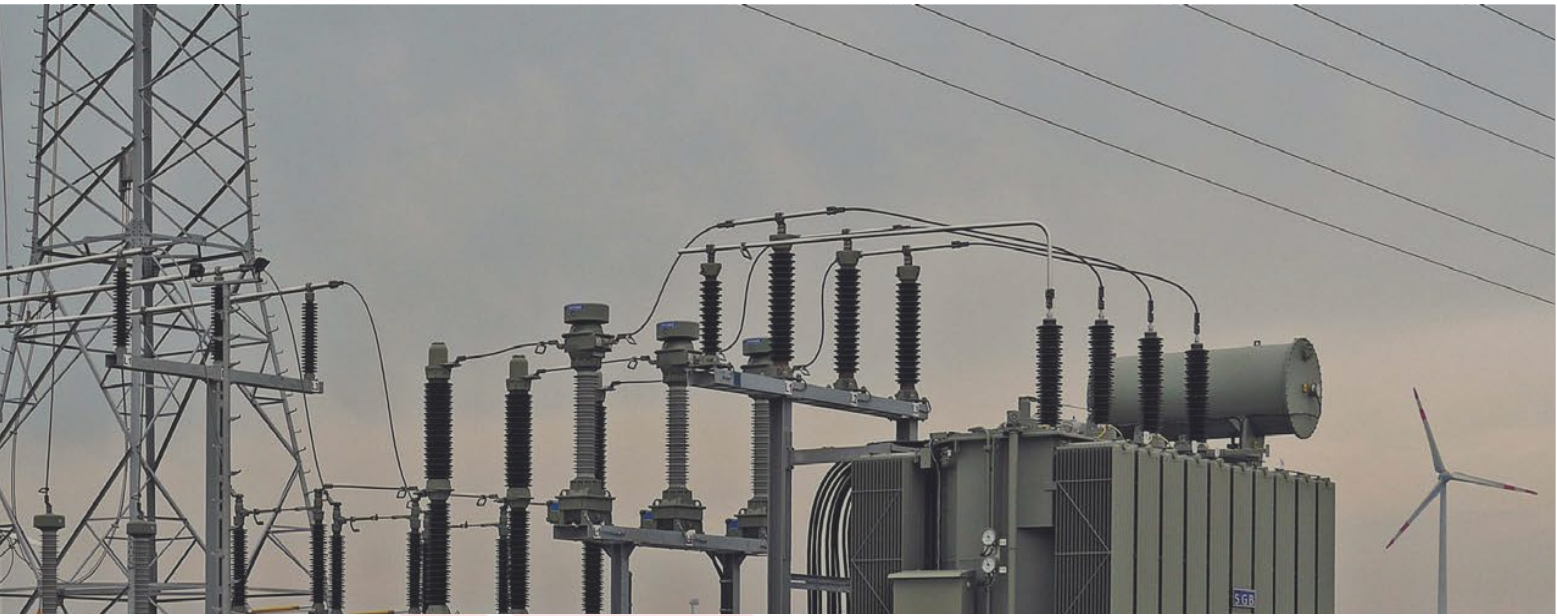
ONLINE GENERATOR WINDING MONITORING

- | | | |
|--|---|---|
| <p>1</p>  <p>RIV800
Robotic Offline
Stator Core Testing</p> | <p>2</p>  <p>PDTech MicaMaxx
Low Frequency
Partial Discharge Monitoring</p> | <p>3</p>  <p>EL CID
Evolution Offline
Stator Core Testing</p> |
| <p>4</p>  <p>GuardII+
Continuous Online Monitor of
Multiple Sensor Technologies</p> | <p>4</p>  <p>GuardII+ Sensors - PD Pulses
Rotor Flux changes, Endwinding
Vibrations and Shaft Voltages</p> | <p>5</p>  <p>Stator Wedge Analyzer
(SWA)
Offline Testing Instru</p> |
| <p>6</p>  <p>PDTech DeltaMaxx
Offline Periodic
Partial Discharge Detector</p> | <p>7</p>  <p>PDTech DRA-3
Dielectric Response Analyzer
Offline Diagnosis of Insulation</p> | <p>8</p>  <p>DCR 60
Ramped HV Test for
Stator Winding Insulation</p> |



Iris Application
Manager (IAM)
Turbine Generator Trending
Diagnostics and Reports





TURA-01/03

SINGLE & THREE PHASE TTR
Turns Ratio Measurement
Ratio Measurement: 0.8 to 33,000
High Accuracy: 0.08%
AC Test Voltages : 1V, 4V, 10V,
40V & 100V
Bluetooth Option



PICU-1000

PRIMARY INJECTION TEST SYSTEM
MCCB Timing Tests, CT Turns Ratio
High Output Power upto 1000VA
Output Frequency: 40-70Hz
Fully Automatic
Bluetooth Option



WINRES - 20

WINDING RESISTANCE TESTER
2Channels Resistance Measurement
0.01 $\mu\Omega$ to 100,000 $\mu\Omega$
High Accuracy: 0.1%
Adjustable Current
Output: 0.001 A to 20A
Battery & Bluetooth Options



ARES - 200

CONTACT CIRCUIT BREAKER
Low Resistance Measurement
(0.1 $\mu\Omega$ to 5 Ω)
High Accuracy: 0.1%
Adjustable Test Current
Long Time Current Output:
upto 200A
Dual Ground Measurement Feature



VABO - 80

VACUUM BOTTLE TESTER
Upto 80 kV Test Voltage
Upto 300 μ A Breakdown Current
Ultra Light Weight
Portable Design
Automatic Test
Battery Option



BATU

BATTERY TEST UNIT
Battery Nominal Voltage
Upto 240 V
Discharging Current Upto 130 A
USB Flash Drive
Portable Design
Internal Memory



AUTOMATIC TRANSFORMER ANALYZER

TRAN Series is designed using advanced engineering technology to measure the turns ratio and winding resistance of three-phase and single-phase transformers. TRAN has easy, fast and accurate measurement features using its user-friendly software.

- Single & Three Phase Winding Resistance Measurement
- Single & Three Phase Turns Ratio Measurement
- Heat run test/ Temperature rise test
- Magnetic Balance Test



MULTIFUNCTIONAL SUBSTATION TEST DEVICE

SUWI Series is designed using advanced engineering technology to test power and control equipment in the substations. SUWI is an all-in-one device that can test Relay Timing, Transformer's Turns Ratio, Circuit Breaker Contact Resistance & Timing, Fuses, etc. SUWI is a combined substation testing device with advanced features; hence, named Substation Wizard that is SUWI. SUWI has easy, fast and accurate measurement features using its user-friendly software.

- 3 Φ Circuit Breaker Timing Testes
- Multifunctional Test Device
- Contact Resistance Tests
- Relay Timing Tests
- Turns Ratio Tests

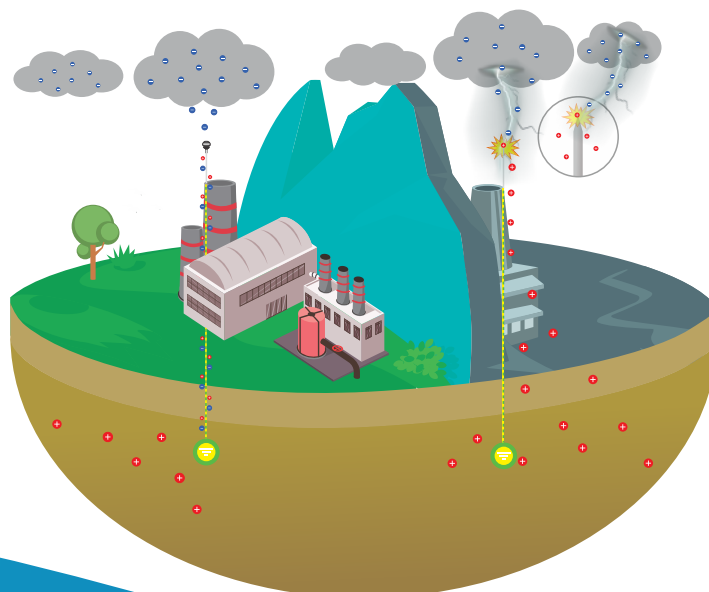
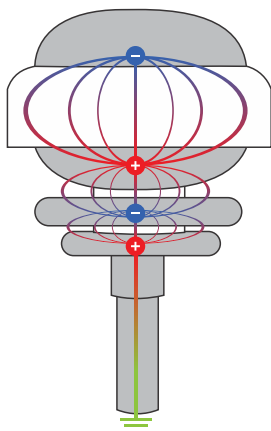
ADVANCED LIGHTNING PROTECTION SYSTEM

CMCE - SERTEC

is an increasingly unpredictable climate, it is crucial to have reliable protection that minimizes risks and ensures peace of mind in lightning protection. Electrical discharges annually result in significant material and human losses in highly complex infrastructures, industries, residences, vessels, and other types of facilities. The electric field has been notably increasing worldwide, leading to areas with higher lightning density (lightning strikes per square kilometer) and typical atmospheric events in regions that previously did not experience lightning impacts. Given this scenario, it is essential to have lightning protection systems that minimize risks and provide safety for both individuals and structures.

OPERATING PRINCIPLE

It is a passive capture system designed to balance and deionize the effects of atmospheric electrical phenomena through multiple compensators and the grounding system. Its operating principle is based on compensating and stabilizing the existing electric field in its environment, nullifying the formation of the upward leader and neutralizing lightning. A protective shield is generated within its coverage area, and excess electric charges are continuously drained to the grounding system. In simpler terms, it prevents sudden increase or saturation of electric charge in its protection area, avoiding the necessary potential difference for lightning formation.



APPLICATIONS



POWER
INDUSTRY



TRANSMISSION
LINES



HOSPITALS AND
SANATORIUMS.



FACTORIES



CONSTRUCTIONS



SPORTS COMPLEXES



TELECOMMUNICATIONS



BUILDINGS AND
SHOPPING CENTERS



AIRPORTS, RADARS,
AND CONTROL TOWERS



MONUMENTS AND
HISTORICAL SITES



MINES,
PETROCHEMICAL
AND EXPLOSIVE
ATMOSPHERES



Sertec S.R.L.
Soluciones inteligentes pensando en usted

POWER QUALITY ANALYZER & SMART METERS



Power Quality Meters : Nexus 1500+ & Nexus 1450

- 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.



ONLINE SF6 GAS ANALYZER



S BASIC

CAR101-XX, CAR102-XX,
CAR104-XX, CAR114-XX,
CAR115-XX,

Available in 15 different
versions to meet every need.



SF₆ REFILLING KITS

REF101-XX

The trailer-made refill;
available in 5 different
configurations



L SYNERGIC

CAR106-XX,
CAR105-XX

Ideal for large sizes GIS
or particle accelerators



SF₆ ANALYZER

ALY101-05,
ALY101-06

Accurate, quick and reliable
analysis in every environment



S M L ACTIVE

ACC101-03

The unique solutions to
recycle your SF6 autonomously
without stopping the plant.



SF₆ LEAK DETECTOR

LEK103-03

Localises and precisely
quantifies any SF6 leak



S POINT PORTABLE INTEGRATED

CAR108-01

4 functions simultaneously
maximum compactness



FLOW V1

REF102-02

Complete refilling solution



S POINT PORTABLE INTEGRATED

CAR108-01

4 functions simultaneously
maximum compactness



DN8 AND DN20 ADAPTOR KITS AND VALVES

VAL102-01, VAL103-01,
VAL102-03-XX, VAL102-04-XX,
VAL103-02-XX, VAL103-03-XX

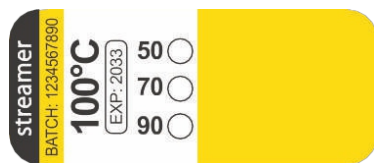
FIPRES - FIRE PREVENTION SYSTEM

Fire is one of the most dangerous situations that could arise in any residential or industrial installation. One-third of all fires occur due to an electrical malfunction, and loose connection problems are the most widespread reason for the fire.

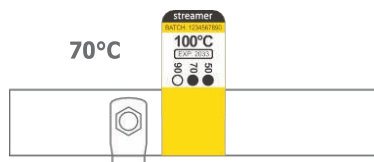
FIPRES is a new and unique technology that detects dangerous overheating of loose contacts long before a fire hazard occurs. FIPRES consists of 3 products working 24/7 to remotely inform when dangerous overheating appears in LV/MV electrical panels.

rFPT. Remote fire prevention thermolabel

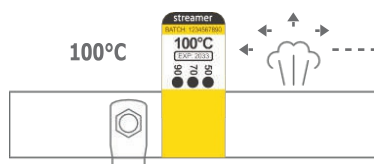
rFPT must be wrapped around cables/busbars close to the contact points. A gas sensor (FPA) should be installed into the same volume



When a contact is heated above 50°/70°/90°C thermindication dots irreversibly change their colors to black



In emergency situations when the temperature rises above 80°C/100°C/130°C the sticker releases signal gas which is detected by the gas sensor FPA



FPA. Fire prevention alarm.
FPA 24/X - FP.AL.00SB.01.WW
FPA 24(4S) - FP.AL.004S.02.WW

FPA transmits alarm signals to SCADA or BMS system through Modbus RTU, or to local alarm systems using dry contact output



Signal gas (non-toxic and non-flammable)

VIA RS 485 MODBUS

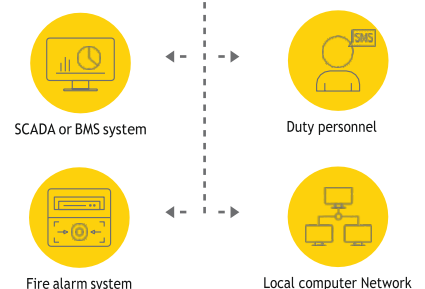


FPC. Fire prevention concentrator.
FPC 220S - FP.CU.S000.01.WW
FPC 220S (GSM) - FP.CU.SGSM.01.WW

FPC monitors the status of up to 32 FPA, displays and records Alarm signals. When FPA is triggered, the FPC transmits information to the central fire alarm system, SCADA or BMS. FPA has a speaker for audible notification



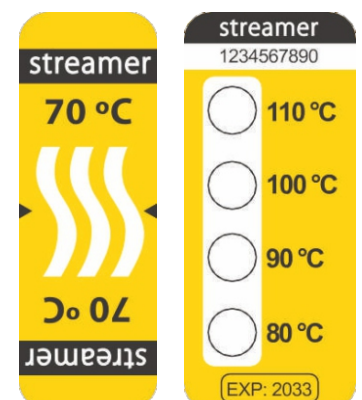
You can use a similar device which supports RS 485 Modbus instead of FPC (or even use light version of FIPRES: only rFPT + FPA. In this case FPA transmits signal directly to SCADA/BMS)



visual FIRE PREVENTION THERMOLABELS (vFPT)

vFPT helps maintenance personnel understand the condition of the equipment, not only at the time of inspection, but can also see if the equipment has reached a certain temperature in the past. Unlike using a thermal imager, vFPT provides a clear picture of what has happened since the last check. These labels are extremely easy to install for any configuration of electrical equipment. The principle of operation is simple: at the activation temperature the white strips or dots irreversibly change color to black.

- vFPT provides information on overheating occurred between 2 checks.
- Long strips allow to get 360° angle of observation.
- 4 vFPT temperature dots allows you to understand not only if the contact has reached highest permissible temperature but also to see how defect evolves and understand the reasons of overheating.
- Specially designed for installation on electrical equipment
- Control hard-to-reach or inaccessible elements for the thermal imager (MV switchgear, explosion-proof electrical equipment).



EasyQuench

EasyQuench is a unique technology, developed and being improved since 1996 by Streamer. Products featuring the **EasyQuench** technology protect overhead lines against direct and indirect lightning strikes, thus helping to prevent breakage of conductors, insulators and power outages. Due to their operating principle, line lightning protection devices (LLPDs) do not require any special grounding (e.g. a ground lead). Therefore, these devices are especially efficient in areas with high soil resistivity.

The Operating principle of LLPDs with the EasyQuench system is based on the following concepts:

1. Insulation coordination. Coordination of lightning protection devices with line insulation is necessary for ensuring proper operation and is achieved by adjusting BIL (CFO) of LLPD so that it is lower than those of the protected insulator. By fulfilling this requirement, it can be guaranteed that in case of a direct or an indirect lightning strike, the LLPD will operate faster this way protecting the line insulator from a flashover.

2. Follow current interruption. Since all power lines are connected to transformers, when there's a flashover of LLPD somewhere on the line, power frequency short-circuit current (or follow current) starts flowing immediately through it. Thanks to the EasyQuench system, LLPD can stop the fault current within one half of the period.

The EasyQuench system consists of a series of small discharge/arcing chambers, being formed by two adjacent metal electrodes placed in a silicone rubber body. Electrodes are separated from each other with tiny air gaps, that break down as soon as the LLPD is subjected to lightning overvoltage.

When follow current starts flowing through the EasyQuench system, it immediately gets split into a series of small power arcs located inside the device. Each of the miniature arcs is then quenched individually.

When power frequency follow current crosses zero, it is eliminated. The line then immediately gets back to normal operation, therefore no short circuit will be sensed by protection relays and there will be no outage or power supply interruption.



Diagram of discharge initiation:

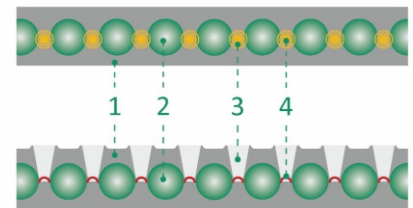
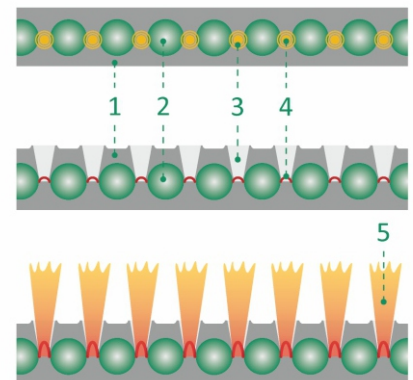


Diagram of discharge completion:



1. Silicon rubber shape
2. Intermediate electrodes
3. Arc quenching chamber
4. Arc
5. Plasma jet

LLPD i20z



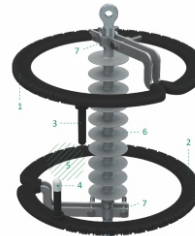
1. EQ system
2. Terminal electrode
3. End fitting with the attachment point

LLPD dC20z



1. Module A with EQ system
2. Module B with EQ system
3. Terminal electrode with one-time glass indicator
4. Insulating load-bearing frame
5. Attachment point
6. Auxiliary electrodes

LLPD dM35z



1. Upper module with EQ system
2. Lower module with EQ system
3. Terminal electrode
4. Terminal electrode with one-time glass indicator
5. Air gap
6. Suspension composite insulator (not included)
7. Attachment point

UNDERGROUND CABLE & 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.

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



SOLUTIONS FOR A CONNECTED WORLD



PORTABLE GENERATOR MONITORING DEVICES & ACCESSORIES

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.

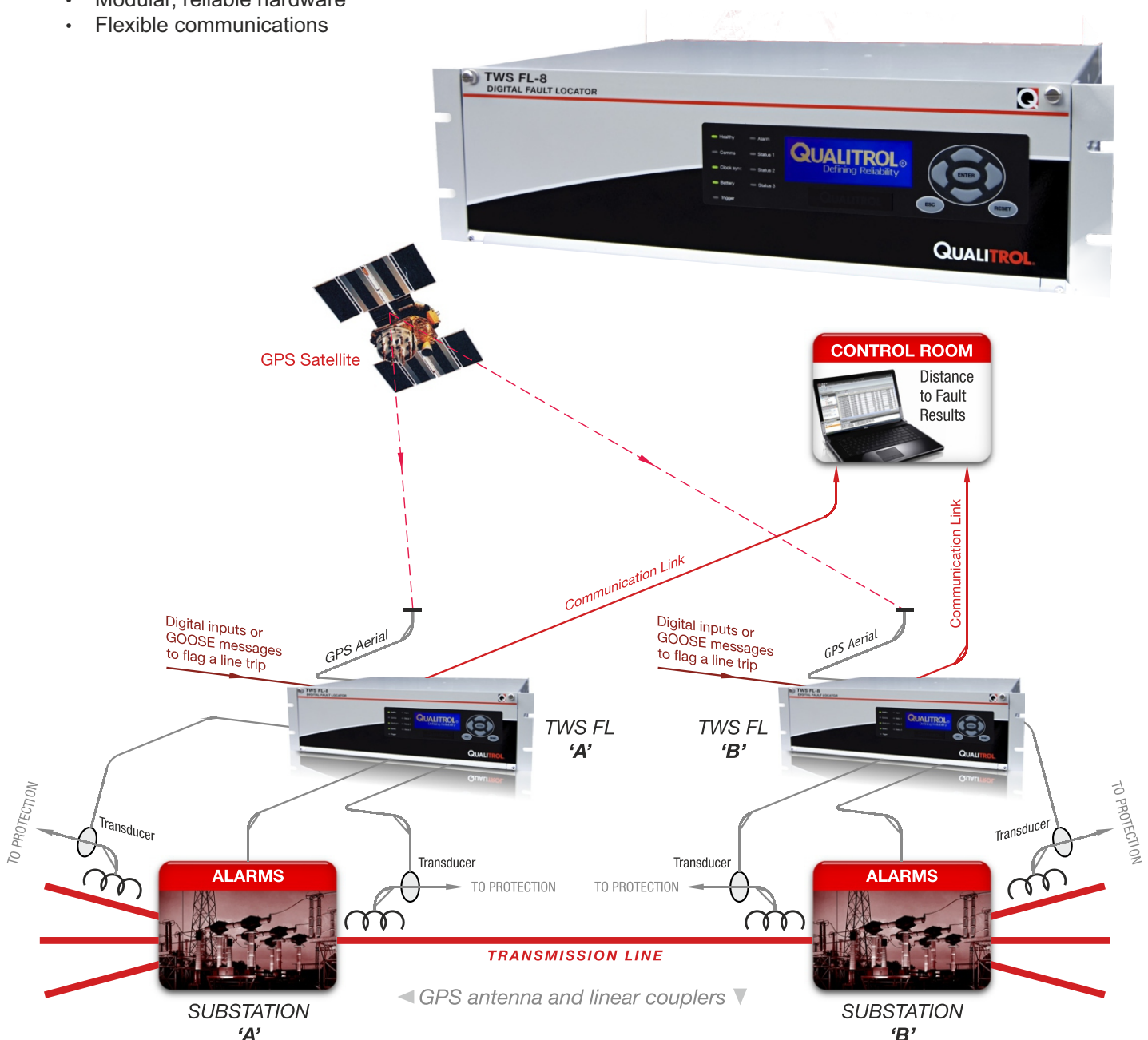


TRAVELING WAVE FAULT LOCATOR

Qualitrol's traveling wave fault location solutions are fast to install and can be set up on multiple lines – no line or substation outage required. What is traveling wave fault location? It's a device that provides extremely precise fault location on multiple lines enabling operation and maintenance engineers to respond rapidly to events and correct defects at minimum cost and maximum efficiency

Features

- Best accuracy to ± 195 feet [± 60 meters] independent of impedance methods
- Reduce downtime by getting to the fault site faster
- Track intermittent self-clearing faults and focus maintenance at the right spot to prevent a major breakdown
- Accurate results from circuit trips automatically displayed in the dispatch center within minutes of the event
- Maintenance crews alerted by email notification
- Display, keypad and USB port allow more interaction with the device
- Modular, reliable hardware
- Flexible communications



ELECTRICAL MEASURING EQUIPMENTS



INSULATION RESISTANCE METER

We offer Insulation resistance tester from 500 V to 15 KV, suitable upto 765KV high induction area with a resistance measurement range upto 40 TΩ and maximum short - circuit current 6 mA.



EARTH RESISTANCE METER

We offer earth resistance tester to measure the earth resistance using 3-pole, 4-pole, impulse method, double clamp method, tower footing resistance and earth impedance testing.



THERMAL IMAGING CAMERA

We offer thermal imaging camera suitable for measuring upto 2000°C upto 150 m, 640x480 equipped with features such as video recording and real time monitoring.



LOOP IMPEDANCE METER

Measurement of very low short circuit loop impedances (with resolution 0,1 mΩ) with a current of 130 A at 230 V; maximum 300 A at 750 V or with a current 24 A at 230 V, maximum 30 A at 750 V (with resolution 0,01 Ω)

EXPERT SERVICES



Partial discharge measurement
for motors, generators,
transformers and GIS

Motor current analysis services



Power quality analysis and
harmonics study

Thermography service



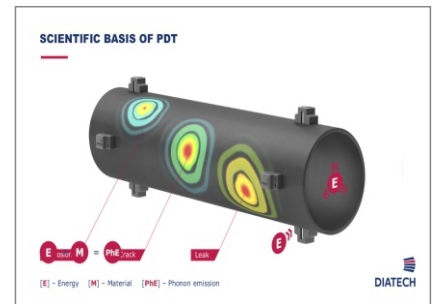
Earth fault location services in
DC distribution boards

Annual maintenance contracts for
Medical Isolation panels



Health testing of medical
electrical equipment

Underground cable route tracing and
cable fault location services

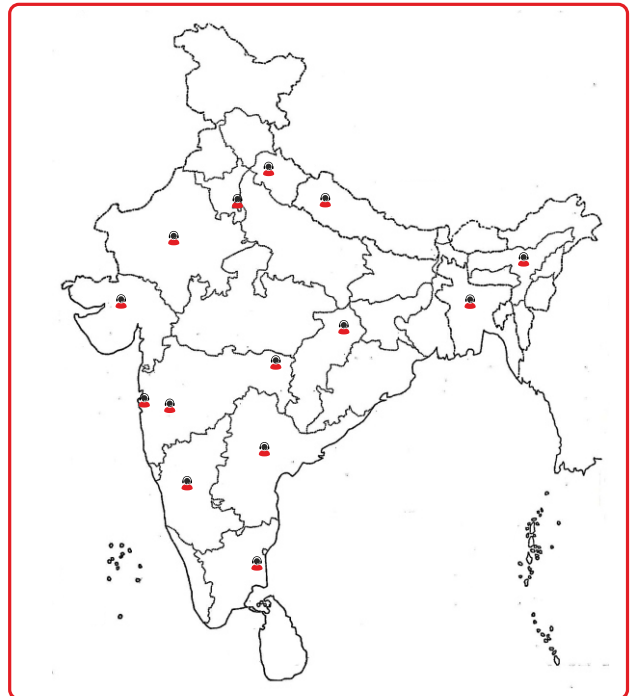


Cross country pipeline
leak and theft detection

Non-Destructive testing of
pipelines, tanks



OUR CUSTOMERS



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