

COMPANY BROCHURE





Who we are

Powerpro provides sales and support of Test, Measurement, Energy Management, Asset Maintenance, Industrial Automation, Personal and Plant Safety solutions from leading manufacturers to the West Africa market.

At Powerpro, we are passionately committed to delivering innovative products as well as reliable services well-tailored to meet customer needs. We help our customers effectively evaluate their plant asset's performance, extend asset mid-life and minimize the occurrence of expensive unplanned outages.

As project partners, we at Powerpro pride ourselves in our ability to plan, design, construct and execute new projects, plant expansions,

perform machine installations etc. We differentiate ourselves by offering a complete and innovative range of solutions and complement them with our field and lab calibration services, prompt deliveries, and reliable after sales support.

Our Core Areas

- Sales and Support of Test and Measurement Solutions
- Industrial Automation, Drives and Controls
- Electrical Testing Services and Equipment Rentals
- Electrical Projects
- Calibration and Shop Services
- Technical Training
- Cable jointing & Termination Kit

Electrical testing services

We provide technical and engineering services that help to ensure correct and safe operation of installed electrical equipment. We offer field testing, site audit and consulting services from our expert technical team.

Our services in the following

- LV & MV Cables acceptance and commission Testing
- Cable fault location
- Substation testing and commissioning (transformers, Circuit breakers, Switchgears and panels)
- Infrared Thermography Surveys
- Protective Relay Testing
- Power Quality measurement and analysis

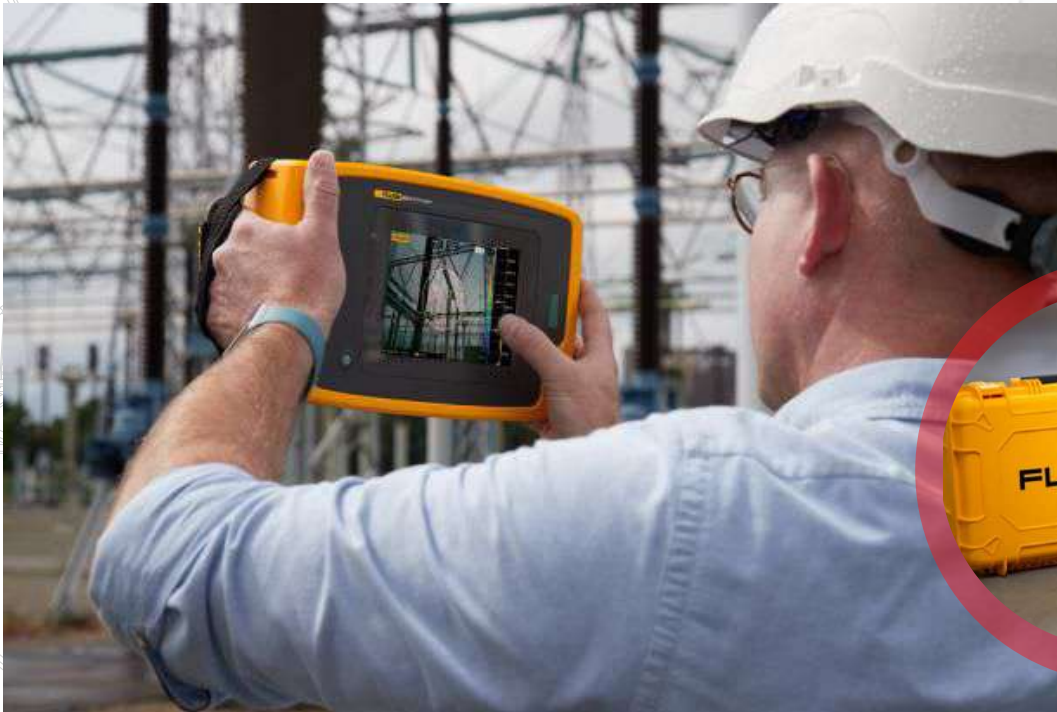


Electrical test, measurements, Troubleshooting and maintenance tools

With several years experience in the supply and service of Fluke tools, Powerpro has an unprecedented knowledge, delivery time and after sales support on Fluke tools.

The Fluke brand is synonymous with technological advancements and as such, launched products in new categories and even revamped/upgrade existing solutions in other lines.

Acoustic Imaging And Partial Discharge Testing



Solar Installation And Testing Solutions



Special Clamp Meters 1500V Cat III AC/DC Clamp Meter, Voltage Clamp ON meters



FLUKE®

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Other major categories: Digital Multimeter



Battery Analyzers



Earth Ground Testers



Oscilloscope



Electrical Testers



Power Quality



Digital Multimeters



Insulation Testers



Process Calibration Tools

Laser Distance Meters,
Portable Appliance Testers,
Thermometers,
Installation Testers etc.



Thermal Cameras



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FLUKE®

Metrology and calibration solutions

MET/CAL® Calibration Management Software

The complete solution for automating and managing your calibration workload **MET/CAL®** calibration management software includes **MET/CAL®** Procedure Editor and Runtime for automated calibration; plus **MET/TEAM®** » software for calibration work flow and asset management.

The MET/CAL and MET/TEAM » suite of software provide you with all the tools you need to:

- Perform automated calibration on all kinds of test and measurement tools and equipment, including dc/lf, RF and microwave instruments.
- Create, edit, test, and document calibration procedures, quickly and easily.
- Configure and report a wider range of measurement uncertainty parameters and include verification data to provide an audit trail and support further analysis.
- Track asset information including work order history and status, traceability, users, customers, and location.

Electrical Calibration



Fluke Calibration makes a full line of multi-product, multifunction, and other electrical calibrators along with electrical standards that are used in primary electrical laboratories around the world.



5522A Multi-Product Calibrator

720A Kelvin-Varley Divider Standard

8845A/8846A 6.5 Digit Precision Bench Multimeters



Pressure products



Pressure is a sophisticated measurement discipline but **Fluke Calibration** has the experts and the best engineered product solutions and we can answer all your questions.



OPG1 Hydraulic Pressure Generator / Controller



3130 Portable Pressure Calibrator



Pg7202 High Pressure Gas / Hydraulic Piston Gauge

Temperature calibration



1529 Chub-E4 Standards Thermometer



9170, 9171, 9172, & 9173 Metrology Well Calibrators



7060/7080 Really Cold Temperature Calibration Baths



9009 Industrial Dual-Block Thermometer Calibrator (Field dry-block calibrators)



Alignment, condition monitoring and reliability solution

PRUFTECHNIK

The most recent addition to Fluke Reliability, has a long track record of supporting remote and flexible work.

PRUFTECHNIK's remote monitoring work dates back to 2006, when they made asset measurement data available and interactive via the internet.



OPTALIGN® Touch

Everyday tool that no workshop should be without

- Unmatched SensALIGN® 5 laser and sensor heads
- Continuous recording of measured values during laser/sensor rotation (SWEEP MODE)
- Wireless data communication (Bluetooth & WLAN)



SHAFTALIGN® Touch

Sets the benchmark for solving common alignment problems

- Single-laser technology
- A maximum of eight measurement points (versus only three for competitor systems)
- Thermal Length Calculator
- Wi-Fi and PC software
- Integrated RFID machine reader

ROTALIGN® Touch EX

Adaptive Alignment for EX/ATEX areas

- Industrial design: waterproof and dustproof (Ip68), oil proof and waterproof (Ip65), dirt resistant, scratch-resistant, and impact-resistant
- Touchscreen display suitable for gloves
- Alignment of vertical machines (vertiSWEEP)
- Alignment of uncoupled shafts and cardan shafts

CENTRALIGN® Ultra Rs5

Alignment of bores and measurement of turbines

- Measurement of diameters from 120 mm to 4,000 mm
- Control sensor for laser drift monitoring

- Highest precision due to resolution in the micrometer range
- Maximum alignment distance 50 meters (with long range laser)
- Compatible with Alignment Center software



Shims

You just can't do without them
From 60x50 mm with 0.025 mm thickness (M12) Max.

- 200x165 mm with 3 mm thickness (M52)
- Made of high-quality stainless steel
- Size information on each shim
- Deburred for injury-free use





Industrial automation, drives & controls

Rockwell Automation is dedicated to delivering smart, reliable, scalable and innovative industrial automation products and solutions to meet your needs.

What Powerpro Offers:

- Sales
 - Hardware
 - Software
- Installation
- Maintenance

HARDWARE Solutions Drives

Choose from a wide selection of PowerFlex AC and DC variable frequency drives and Kinetix® servo drives that are all designed for flexibility, productivity, and ease of use.

- Low Voltage AC Drives
- Medium Voltage AC Drives
- DC Drive



A



B



C



D

Circuit and Load Protection products

Circuit and Load Protection products protect solenoids, relay coils, pilot devices, PLC outputs, and more. We offer electronic circuit protection modules, circuit breakers, and motor protectors including modular protection systems, bi-metallic or solid-state overload relays and surge protectors and filters.

Programmable Controllers

Allen-Bradley programmable logic controller (PLC) and programmable automation controller (PAC) range from large to small and even micro applications. They offer different controller types and sizes to fit your specific needs.

- Large Control Systems
- Small Control Systems
- Micro Control Systems
- Process Controller





Human Machine Interface

Visualization and HMI solutions help you address your productivity, innovation, and globalization needs. Our portfolio provides a consistent look and feel for electronic operator interface terminals, distributed client/server HMI, and information software.

- Graphic Terminals
- Tethered Operator Terminals

Industrial Computers & Monitors

Integrated display computers are available in multiple screen sizes, bezel types, resolutions, storage options and processor performance.

- Industrial Computers
- Hazardous Location Computers
- Industrial monitors
- Thin Clients
- Versa View products



Power supplies

Rockwell provide a wide variety of power supply solutions. From switched mode and industrial uninterruptible power supplies to transformers, every product is designed for reliability and dependable operation.



SOFTWARE

- FactoryTalk DesignSuite
- Studio 5000 Design Software

OTHERS

- Push Buttons and Signaling Devices
- Relays & Timers
- Sensors & Switches
- Safety Products
- Signal Interface
- Motor Control
- Input/output Modules
- Condition Monitoring
- Network Security & Infrastructure
- Energy Monitoring

Cable termination and jointing kits

Powerpro has been expanding her Power network maintenance over the years and are pleased to be your partner in RAYCHEM kits supplies

TE Connectivity\Raychem products have been synonymous with reliability in extreme environment and conditions. This family of products has been a global leader in material science, engineering, and manufacturing

We keep stock of Raychem kits for your quick, on-time maintenance and installation needs in the following range

TERMINATIONS - MEDIUM VOLTAGE TERMINATIONS UP TO 42KV



JOINTS - MEDIUM VOLTAGE JOINTS - UP TO 42KV



INSULATING COVERS, TAPES AND TUBING



SWITCHGEAR CONNECTIONS (STRAIGHT AND ELBOWS)



Raychem
from TE Connectivity

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Substation monitoring automation & protection

Grid Solutions, a division of GE, is a major solutions provider and thought leader in the effort to modernize and optimize how energy is generated, moved and consumed. They provide products and services that modernize the electrical grid. PowerPro is a Value Added Reseller for GE Digital Energy with several years of experience in sales and field support



Transformer ageing can be calculated so that expensive failure can be avoided



Gos analyzer classifies the fault types, providing valuable insights into the transformers condition.



Transformer faults are detected in their infancy, enabling fast remedial response



Multiple Gas Transformer DGA

GE'S kelman line of DGA devices enables precise on-line monitoring of transformer using multiple fault gas DGA and offers detailed diagnostics according to IEEE/IEC standard of any issue detected.



TRANSPORT X-A
Portable DGA



Online DGA monitoring
all 9 fault gases plus oxygen
and moisture

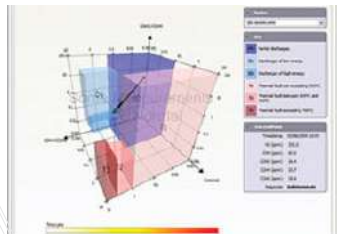


The Kelman DGA 900 is an 9-gas Online transformer DGA monitoring unit. Using our 4th generation of advanced photo-acoustic detection technology



Software and Onsite Services

We deploy software for customers to effectively access and manage the data from their monitoring devices



Perception Fleet-Transformer Fleet Risk Management Software

- Transformer fleet condition rankings,
- Transformer risk information,
- Expert analysis on-demand



Onsite DGA testing service reporting and Analysis



Transformer Assessment Service Periodic Transformer testing

- Periodic Transformer testing
- Condition assessment
- Maintenance/repair recommendations
- Root cause analysis

GE automation, protection & control

Digital Protection

- UR Family, UR Plus, SR Family, 8 series, Other motors & Feeders (Legacy products)
- Hard fiber System MICOM P40 Agile modular p141-P847 series inclusive,
- p40 Agile compact P14D-P94V series inclusive, P50 Agile series,
- legacy KVGC voltage regulation, Reason MU series merging units,
- MICOM C264 Bay Controller

Digital Meters and Measurement

- Digital Meters: PQM, EPM
- ISTAT Transducers, reason digital fault recorder families of RPV/RA
- DR60, BA300 battery alarm and M2xx series



Multilin DGPR is well suited for large hydro, gas and steam turbine generators, providing state-of-the art, modern protection and control functionality for these critical power system assets

Feeder & Transformer Protection Relay Suitable for: Generation, Transformer, Feeders and Motors



GE Micom Relays: Idea for Generator differential, ground fault and over current protection



MVAJ- voltage Operated HA tripping relay





Substation maintenance and Commissioning test solutions

SUBSTATION MAINTENANCE AND COMMISSIONING TEST SOLUTIONS

Our Multifunction Test systems are effective for commissioning and maintenance test of Power Plants, Substations and most electrical equipment in LV, MV and HV ranges

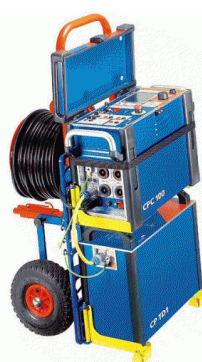
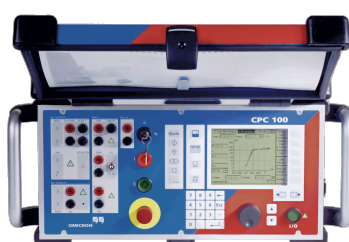
CPC 100 Multi-functional primary test system

The CPC 100 is the ideal test set for substation asset commissioning and maintenance. You can operate the CPC 100 via the integrated front panel, or by using the Primary Test Manager™ (PTM) software on your laptop.

The powerful testing device provides up to 800 A or 2 kV (2 kA or 12 kV with accessories) with up to 5 kVA over a frequency range of 15 Hz to 400 Hz or 400 ADC. Using the CPC 100, electrical tests on various assets can be performed:

- Current transformers
- Voltage transformers
- Power transformers
- Power lines
- High-voltage (HV) cables
- Grounding systems

- Rotating machines
- GIS systems
- Switchgear and circuit breakers
- IEC 61850 installations
- Protection relays



Omicron CP TD1: Capacitance / Dissipation Factor (Tan Delta) Module

The CP TD1 is an accessory for TESTRANO 600, CPC 100 or CPC 80 for performing power/dissipation factor and capacitance measurements. The CP TD1 includes a high-voltage source, reference capacitor and measurement electronics. It can generate output voltages up to 12 kV, currents up to 300 mA and achieves laboratory

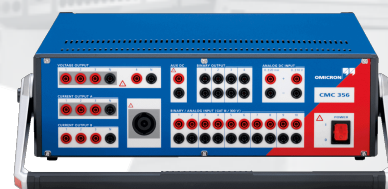
precision, even in environments with strong interferences.

CMC 356

Universal relay test set and commissioning tools.

The CMC 356 delivers the highest level of versatility, output amplitude, and power. It has six powerful current sources, with great dynamic range, also capable of primary injection of high currents up to 128A

- Your benefits
- Powerful current sources for testing high-burden electromechanical relays
- High current amplitudes for 5 A relay testing
- High accuracy and versatility for testing digital and static relays of all types
- Integrated network interface for testing IEC 61850 IEDs



CIBANO 500: One device – three functions

3-in-1 test system for medium-and high-voltage circuit breakers



CT Analyzer

Current transformer testing, calibration and assessment



VOTANO 100

Voltage transformer testing, calibration and assessment



FRANEO 800

Sweep frequency response analyzer



OMICRON



MPD 800

Universal partial discharge measurement and analysis system

It supports you during standards-compliant PD testing for routine and type testing, factory and site acceptance testing, as well as for troubleshooting to localize or investigate PD sources in:

- Power transformers
- Power cables
- Rotating machines
- Gas-insulated switchgear (GIS) and medium-voltage switchgear
- Industrial drives > Railway transportation
- High-voltage components such as bushings, insulators, capacitors, cable terminations, busbars



TESTRANO 600

Three-phase test system for comprehensive power and distribution transformer testing
TESTRANO 600 is the world's first portable, three-phase test system which supports all common electrical tests on single- and three-phase power and distribution transformers.

Your benefits

- True three-phase power transformer test set
- Powerful device with 3 x 33 A DC or 400 V AC
- Reduced wiring effort as same wiring can be used for different tests
- Three times faster testing



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Cable testing and fault location solutions

Cable Testing and Diagnostics

Cable networks are expensive as such must be tested in compliance with the national and international standards. Condition-based maintenance is inevitable for power cable network companies. PowerPro specialises in the Sales of standard and custom designed HIPOT products suitable for Transformer, cables, and Motors. We are offering you cable test equipment from world leading manufacturer, BAUR located in Austria.

Our Range of products are known to give accurate information about the condition of cable and also for routes/ underground fault tracing. Our products also have competitive price edge over other brands.



AC AND DC
VOLTAGE TESTING
PGK HB: High-Voltage
test set PGK 25, 50 & 80:
High Voltage Tester



Portable VLF
testing and tan
delta Diagnostics
Frida TD: High-voltage
testing and diagnostics
device. Viola TD



VLF Testing and
Diagnostic Systems
PHG 70 and PHG 80:
Portable VLF cable
testing and Diagnostics
System



PHG 70/80 TD
& PHG 70/80 TD
PD VLF test & Diagnostics
system for MV
Cable up to 50KV



Online Partial
discharge
Diagnostics
Liona: Online PD
Spot Tester



Online Partial discharge
Diagnostics
PD-SGS: Handheld
online PD Detector

Cable test vans and fault locations systems

Precise and quick cable fault location, testing and diagnostics of new and aged cable routes the BAUR cable test vans are fast and reliable for field operation. They ensure prompt restoration in a safe and efficient manner and are exactly adapted to individual requirements and cable networks

Cable Test Vans

Titron: Cable test van
Transcable 3000: cable test van



Customised Cable test van Solutions



Cable fault location systems

Fault in cable systems should be detected quickly and precisely using pre-location and pin-pointing methods. To achieve this, BAUR offers robust, reliable, flexible devices that are equipped with the appropriate methods depending on the application.



Cable Sheath testing and fault location
Shirla: Sheath testing and fault location device
KMF I: Cable Sheath Fault receiver



Pre-location and pin-pointing cable routes
CL 20: Cable Locator
UL 30: Universal receiver
TG 600 and TG 20/50: Audio frequency transmitter



Time Domain Reflectometers
IRG 2000: Time Domain Reflectometer (TDR)
IRG 32000: Time Domain Reflectometer (TDR)
TDR 500/TDR 510:



Cable Fault Location Systems
Syscompact 2000 M
Portable Cable Fault Location system



Cable Fault Location Systems
Syscompact 2000/3000:
Portable fault locator



Pre-location and pin-pointing cable routes
Locator Set/UL 30 Cable tracing location system and fault

Oil breakdown voltage Testing

Our range of oil breakdown voltage testers covers all standard voltages and are capable of performing manual and automatic tests to conform to ASTM D1816, ASTM D877, IEC 156, BS 146, VDE 0370 standards based



BAUR DPA series
(DPA 75C, DTA 100C)
of Oil BDV offers various ratings of testers from 0-100kV at a slew rate of 0.5-10kV/s



OIL TAN DELTA AND RESISTIVITY TESTER

BAUR DTLC Oil Tan Delta and Resistivity Tester:

- Fully automatic dissipation factor Measurement.
- Efficient for continuous lab use Measures tan delta values up to 1×10^6 according to a special principle



Practical connections to meet your needs

we provide industry-focused product solutions

Be it automobile manufacturing, electricity production or water management – hardly any of today's industries can do without electronics and electrical connectivity. In this internationalised, changing world, the complexity of requirements is rapidly increasing due to the emergence of new markets. New, more varied challenges have to be overcome, and the solutions to them will not be found in high-tech products alone. The key lies in connecting power, signals and data, or demands and solutions. Creating these connections requires a profound insight into the needs of people and the challenges they face in their daily industrial connectivity tasks.

What would bring them a significant benefit?

What specific challenges do their industries face?

We ask ourselves these questions every day, and respond with strong product solutions, tailored to each industry.

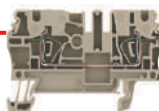
Modular Terminals

P series **PUSH IN**



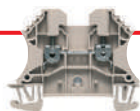
PUSH IN
connection systems

Z series



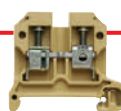
Tension clamp
connection systems

W series



Screw connection
systems

SAK series



Screw connection
systems



Bolt-type screw
terminals



Accessories

Heavy-duty connectors

Standard
inserts



Modular
system concept



Housing Technology



Power Bus System



Professional Tools



Markers, Printers and Software





Calibration

At PowerPro, we know what it means to have your test instruments serviced and calibrated, That is why we offer traceable ISO 17025 approved calibration service that ensure your equipment continues to perform with long term accuracy and measurement excellence

Our instrument testing and calibration services covers most electrical testers, temperature, thermal imaging, dimensional, pressure and physical parameters etc.

With us, you get to enjoy; Compliant & Traceable calibration with data for divers OEMS such as Fluke, Amprobe, Megger, Extech, AEMC, FLIR, Omega, B+K Precision, Ametek, Seaward, Hipotronics, Yokogawa etc.

- Saved time and cost associated with unplanned downtime
- Reduced turnaround time of calibration
- Access to personalized online and downloadable calibration certificate
- Free pickup and delivery for locations within Lagos



ISO 17025 APPROVED CALIBRATION



Call us on today to get a 10% on your first calibration request!

Equipment Rentals

Powerpro equipment rental offers a wide inventory, user-friendly solutions, flexible rental terms, and quality customer support that differentiate us from our competitors.

Our inventory covers most electrical test and measurements and we are always adding new test equipment to remain the industry's leading electrical test equipment rental provider:

Our Offering includes:

- Insulation Testers, Power Quality and energy loggers.
- Thermal images and Earth test tools [fluke:1555,1587,435-II,805,1625-2 etc]
- Substation commissioning Test sets: Omicron CPC 100
- Protective relays, circuit breaker and switch gears test set
- Insulating Oil test sets:[BDV,DGA etc]-GE

- Transport X
- Hipot Testers
- Cable Testers and fault locators-Baur viola, SysCompact 2000





Training

Our professional training course cover multiple levels ranging from fundamental through advanced topics. Our courses aim at providing introductory knowledge (for graduates) and in-depth knowledge for professionals,experienced engineers,technicians,supervisors and other personnel with good understanding of the bases of these courses. it also target development of Subject Matter Specialist within Nigeria and Africa.

With our new state-of-the-art facilities,we have invested tremendously in our course materials,time and experience aimed at easing knowledge transfer during our classes,with specific details to industrial applications. Our training materials are built from and in compliance with industrial leading standards such as ISA,NFFA,IEC,IEEE,etc. and we also use authorized industry videos to butteress our class lessons.



SATISFIED CUSTOMERS





Address

No. 23 Ladipo Oluwale
Off Adeniyi Jones,
Ikeja-Lagos.

Plot 36A,
Trans Amadi Industrial Layout,
Port Harcourt

Mobile Numbers

0818-591-8133, 0908-793-9482

Website

www.powerpro.ng

E-mail

sales@powerpro.ng

