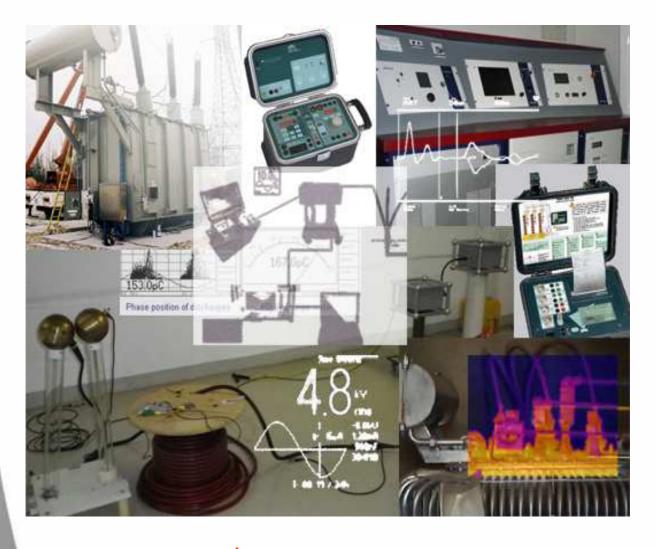
# Techno Power تکنـــو بــاور



www.technopowereg.com



#### About TechnoPower

**TechnoPower** is an Egyptian company works in the fields of supplying electrical testing equipments, electrical testing services, maintenance and repairing, and it has a team of highly qualified specialists capable of supporting our clients in our field.

#### **First: Sales**

**TechnoPower** represents major international companies in the field of testing and measurements to meet the needs of the Egyptian market with efficient and high technology products.

Representing the company in this field sales engineers with expertise and high efficiency to cooperate with all clients to meet their technical needs and provide them with the state-of-the-art products and solutions.

Our key success is the after-sales service by highly qualified technical support engineers capable of solving the technical problems that could face our clients.

#### **TechnoPower** Customer base

- Electricity Distribution Companies
- Electricity Transmission Companies
- Electricity Generation Companies
- National Institute of Standard in Egypt
- Many of Research Centers in Egypt
- Military Factories
- Oil Refining Companies
- Petrochemicals Companies
- Many of private owned Companies
- Many of private owned Factories

#### **Second: Testing Services**

**TechnoPower** have an integrated portable test systems for different testing applications and conducting these tests highly qualified engineers capable of performing the tests and repairing on site for all the electrical equipments according to the international standards and following the safety regulations.

- Underground Cable Fault Locations Service for Low voltage and Medium Voltage networks.
- Low Voltage and Medium Voltage Cable Testing Service.
- Transformers Testing Service (Distribution, Power, Voltage and Current)
- Circuit Breakers Testing Service.
- Thermal imaging survey for detection hot spots.

#### Third: Maintenance and Repairing

**TechnoPower** has a qualified maintenance laboratory and specialists with high technical expertise for the maintenance and repairing of all instruments and test equipments.



# Cable Fault Location and Testing Equipments for Low, Medium and High Voltage Networks

#### PORTABLE CABLE FAULT LOCATION SYSTEMS

All in One portable system for complex cables networks.

Perfect choice for complex, noisy and congested networks as in cities.

Very efficient due to advanced TDR (up to 95 km) and high surge energy (1000 J up to 2000 J).

#### Models Available:

P5i / P12i / P24i / P32i

I	P5	P12	P24	P32
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	P5i	P12i	P24i	P32i / P40i
	Integrated TDR & ART	Integrated TDR & ART	From Q3 2016	Integrated TDR & ART

#### **PINPOINTING DEVICE**

The acoustic pin-pointing fault location system Kamphone is a ground sound microphone and is used for

pinpointing of flashover faults in power cables. Acoustic and magnetic sensing ground phone.

#### Models Available:

#### **LINE TRACING EQUIPMENTS**

The audio-frequency oscillator is a sinusoidal oscillator with a power output of up to 250W.

It is used for routing cables and pipelines in the earth or on construction sites in combination with a search receiver.



- AFG 250-P
- **FERROPHON**

# KAMPHONE

#### **DC HV TEST SETS**

Portable test sets for HV DC insulation Withstand

Precise measurement of voltage and leakage current. Integrated safety features.

#### Models available:

HTD6 / PGT 25 kV/PGT 50 kV/ PGT 80 kV / PGT 110 kV



#### **CABLE IDENTIFICATION EQUIPMENTS**

The InterSelect cable selection set is used for positive selection of single cable or line from a bundle of ca-

Includes signal generator injecting unipolar current in DUT and sensitive receiver for remote identification.

#### Models Available:

InterSelect G100 / S10/ S11



# **Professionals in Cable Fault Location in** Low and Medium Voltage networks



#### **PRIMARY INJECTION**

High current and voltage injection. Testing of current transformers, voltage transformers, circuit breakers, relays, reclosers, sectionalizers, busbars and switchgear testing.

#### Models Available:

- Raptor Systems
- LET Series

#### **SECONDARY INJECTION**

A large choice of Secondary injection test sets and protection relay test equipment.

Single or three phase current, voltage, frequency and IEC-61850 testing.

#### Models Available:

- Mentor System
- PTE Series



#### **MEASUREMENT EQUIPMENTS**

Maintenance and commissioning of substations and power plants.

Circuit breaker analyzer, timing and motion, low resistance micro ohmmeters, digital timers, windings resistance, contact resistance, phase angle and frequency meter.



#### TRANSFORMER TESTING

Diagnostic insulation testing in motors/generators. Turn ratio and winding resistance meters. Recovery voltage.

Polarization index.
Short circuit impedance.

Models Available:

ETP Series



# Models Available:

• PME Series

#### Non contact temperature measurement

#### **INFRARED THERMOMOETERS**

Our handheld thermometers with innovative laser visors are perfectly suited for all everyday portable measurement tasks in preventive maintenance and anywhere else where non-contact temperature measurements are required.

#### Models Available:

- Optris LS Series
- Optris P20 Series



#### **INFRARED CAMERAS**

Our comprehensive product portfolio comprises infrared measurement cameras for different industrial applications as well as research & development.

#### Models Available:

Optris PI Series





# **Training Courses and Seminars**

The company is not only a supplier of electrical equipment but also organizes technical courses and seminars covering various aspects of substation equipment, cable testing and diagnostics, cable fault location,...

During our Seminars, our customers are always well informed with the latest technology products in our field.

At the company we like to share our knowledge; During our Technical training courses we provide our customer with theory and practical training so the customer capable of using the equipments at its maximum performance.

Our Technical training courses and Seminars given by highly qualified experts and specialists with more than 20 years of experience.

#### Courses and seminars:

#### 1- Power Cables:

Low, Medium and High Voltage Power Cables

Construction and Types, Cable insulating materials, Testing, Failure analysis, Fault location, ......

- 2- Protection Relays Testing:
- 3- Circuit Breakers Testing: Low, Medium and High Voltage Circuit Breakers
- 4- Transformers Testing: Power, Distribution, Voltage and Current Transformers
- 5– IR Survey:
  Testing Preventive maintenar

Testing, Preventive maintenance and Diagnosis,.....







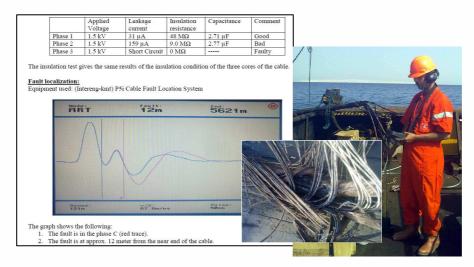
#### **Cable Fault Location Service for Low, Medium and High Voltage Networks**

TechnoPower have the modern and high technology portable cable fault location systems for locating the cable faults preciously and accurately.

Highly qualified engineers and technicians in the field of underground cable fault location are performing these tests according to the international standards and following the safety regulations.

With our system; we are able to locate complex cables faults.

Professional reports with recommendations for the actions to be taken.



<u>Test done on a submarine medium voltage cable between</u> <u>two off shore platforms with cable length of 6 km</u>

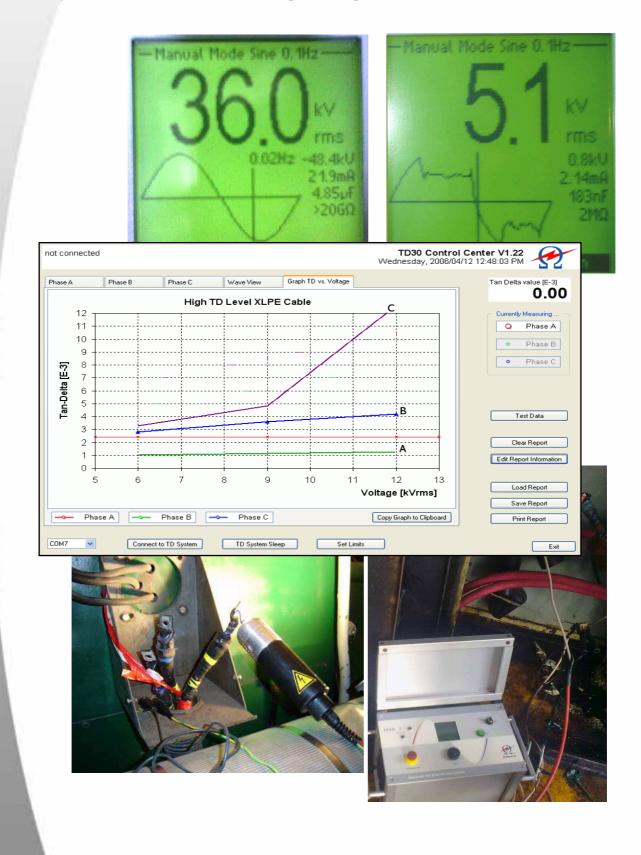


<u>Test done on Low voltage cable between two LV distribution</u>
<u>panels with cable length of 252 meters</u>



# **Low and Medium Voltage Cables Testing Service**

The company capable of performing the test service of analyzing the integrity of the insulation system of the Medium and High voltage cables.





# **Testing Services of Distribution and Power Transformers**

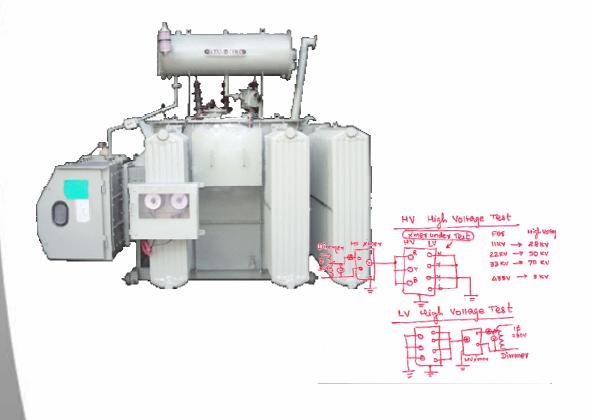
The company capable of performing the test service of distribution, voltage, current and power transformers at all voltage levels, and are as follows:

### **Chemical analysis for transformer oil:**

Dissolved Gas Analysis

#### **Electrical tests and analysis:**

- Transformation Ratio measurement
- Winding Resistance measurement
- Insulation Resistance measurement
- Polarity Test measurement
- Excitation Current test
- No load losses and excitation current
- Load losses with reduced current and short circuit impedances



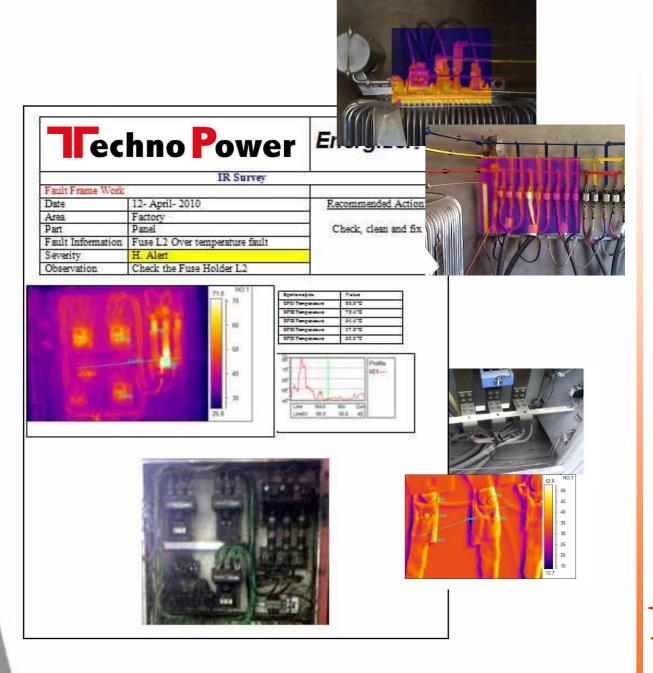


### **Thermal Imaging Survey for Hotspots**

The company has the most advanced Infrared thermal imaging camera as well as the infrared thermometers for both short and long distances targets.

Covering most of the temperature measurements applications such as; transformers, distribution panels, bus bars, circuit breakers connection points, capacitors, ... etc,

Professional reports with recommendations for the actions to be taken.





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- Cable Fault Location for Low voltage and Medium voltage networks
- Low and Medium voltage cable Testing
- Transformers testing
- Circuit Breakers testing
- Thermal imaging services for detection of the hot spots





InterEng GmbH Kabelmesstechnik (Germany)



Optris GmbH (Germany)

# Techno Power تکنـــو بــاور

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