

Techno Power

تکنو پاور



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 laboratories 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 repair of all instrumentation and test equipments.



Testing Services

Cable Fault Location Service for Low and Medium Voltage Networks

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

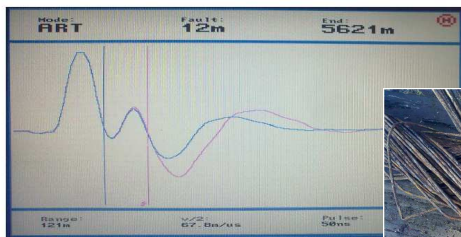
Professional reports with recommendations for the actions to be taken.

	Applied Voltage	Leakage current	Insulation resistance	Capacitance	Comment
Phase 1	1.5 kV	31 μ A	48 M Ω	2.71 μ F	Good
Phase 2	1.5 kV	159 μ A	9.0 M Ω	2.77 μ F	Bad
Phase 3	1.5 kV	Short Circuit	0 M Ω	----	Faulty

The insulation test gives the same results of the insulation condition of the three cores of the cable.

Fault localization:

Equipment used: (Intereng-kmt) P5i Cable Fault Location System

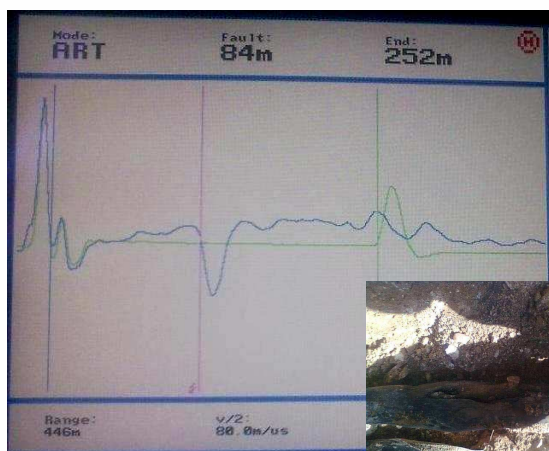


The graph shows the following:

1. The fault is in the phase C (red trace).
2. The fault is at approx. 12 meter from the near end of the cable.



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



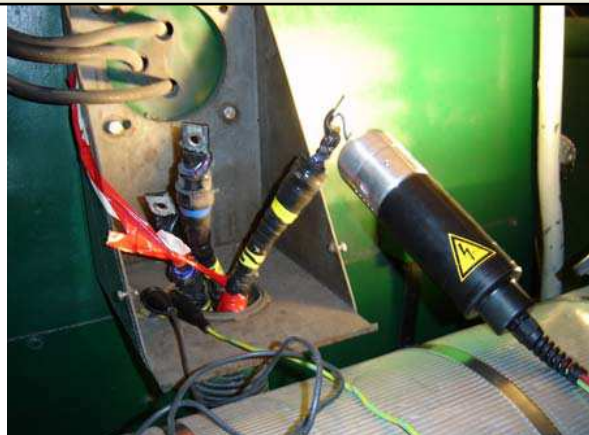
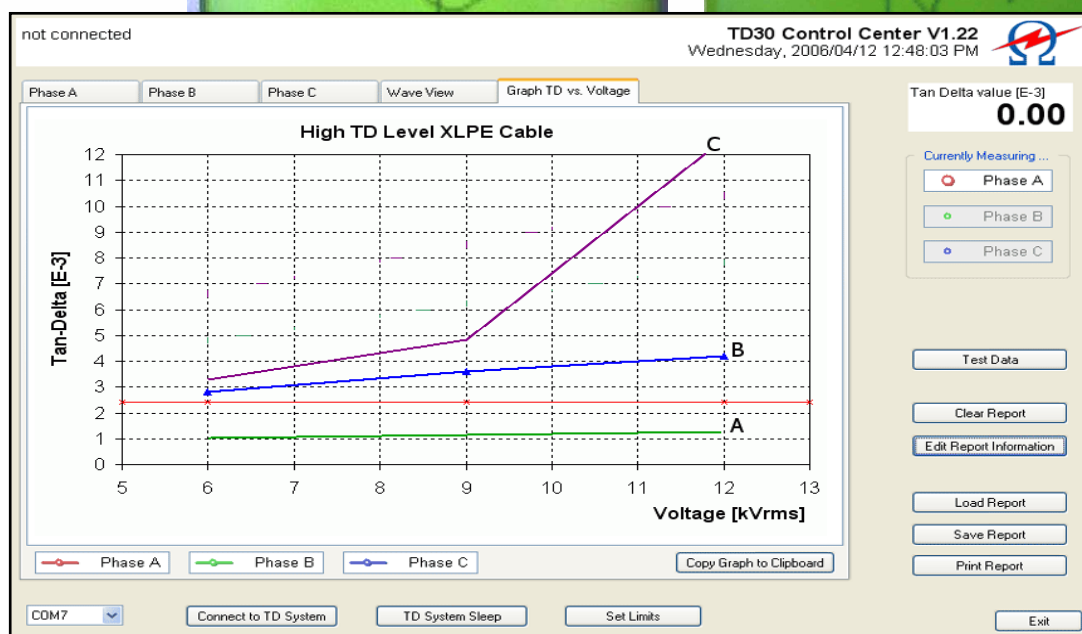
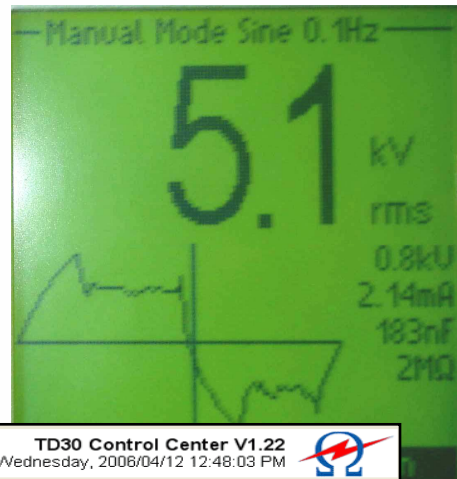
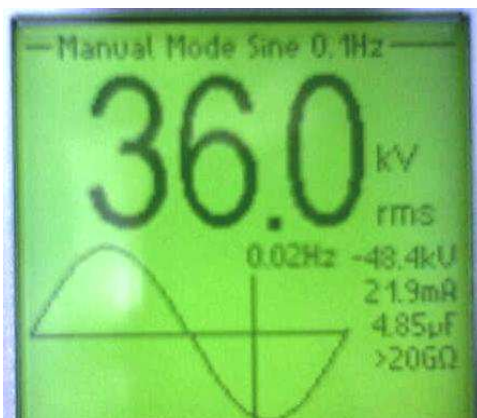
Test done on Low voltage cable between two LV distribution panels with cable length of 252 meters



Testing Services

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

Testing Services of Distribution and Power Transformers

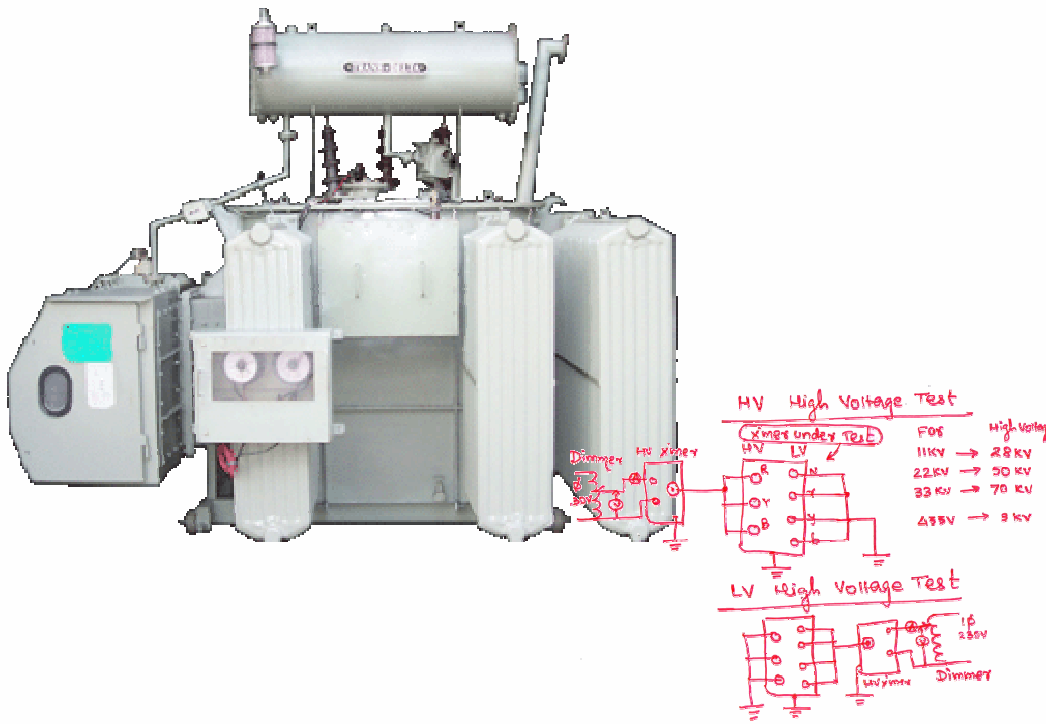
The company capable of performing the test service of distribution, voltage, current and power transformers at all voltage levels, and are as follows:

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





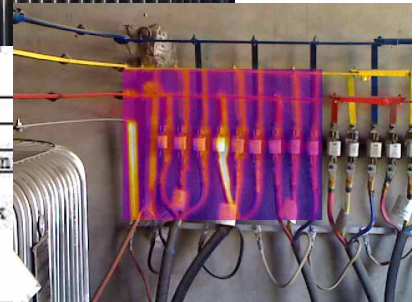
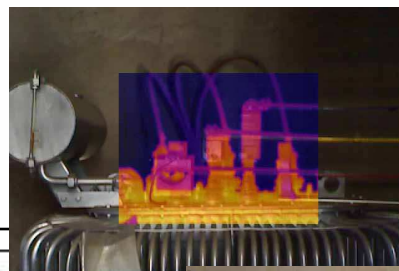
Testing Services

Thermal Imaging Survey for Hotspots

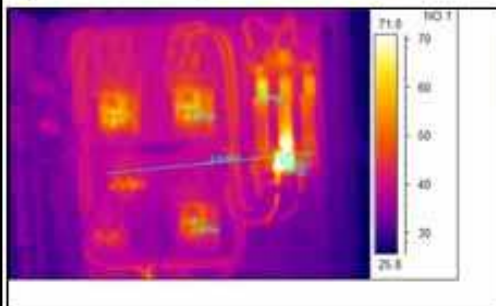
The company has the most advanced Infrared thermal imaging camera as well as the infrared thermometers for both short and long distances targets.

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

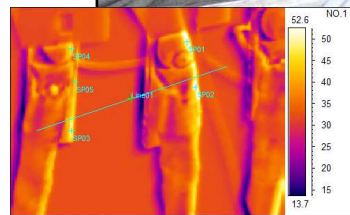
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		IR Survey	
		Fault Frame Work	
Date	12- April- 2010	<u>Recommended Action</u> Check, clean and fix	
Area	Factory		
Part	Panel		
Fault Information	Fuse L2 Over temperature fault		
Severity	H. Alert		
Observation	Check the Fuse Holder L2		



Spektrajon	Value
SP01 Temperature	80.0 °C
SP02 Temperature	70.4 °C
SP03 Temperature	24.4 °C
SP04 Temperature	27.0 °C
SP05 Temperature	22.3 °C



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



intereng®

InterEng GmbH Kabelmesstechnik (Germany)



Optris GmbH (Germany)

Techno Power

تكنو باور

Contact Details:

Tel: +2 02 33372270

Fax: +2 02 33372280

Mob: +2 010 05176212

E-mail: sales@technopowereg.com

Web: www.technopowereg.com

29 Mohamed Khalaf St., 1st Floor / Giza / Egypt

Tel: (02) 33372270 Fax: (02) 33372280 Email: sales@technopowereg.com