



products and services **portfolio**
2016

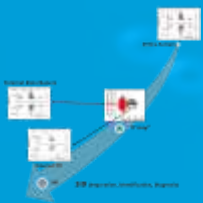
TECHIMP

TECHIMP is the major player in Condition Assessment and Permanent Monitoring of electrical Assets.

With more than 4000 installations, TECHIMP has reached excellence in converting research and innovation into practical, field-proven applications.

Worldwide customers rely on TECHIMP's services and solutions for operational consistency and efficient asset management.

What makes us unique?



Enhanced Data Analysis: Patented TECHIMP T-F map filter technology

The fundamental innovation of TECHIMP PD diagnostic systems consists of the acquisition and processing philosophy. TECHIMP's acquisition units are provided with ultra-wide bandwidth acquisition system, which collects PD pulse peak, PD phase and PD pulse waveforms. Per each acquired pulse the acquisition unit automatically calculates its equivalent time and equivalent frequency content, building the so called "T-F map".

The map shows groups of pulses "clusters" characterized by same time and frequency content, i.e. homogenous pulses. An efficient separation of different discharge activities, including noise rejection, can be achieved through pulse shape analysis. It avoids identification to be affected by different phenomena overlapping, as well as noise superposition to real PD phenomena.



One for ALL: AQUILA the new portable PD Acquisition Unit

The design of TECHIMP's portable is influenced by many years of field experience. It can cope with the toughest outdoor conditions while taking measurements on any electrical asset. The battery-powered unit allows testing activities for up to 20 hour without auxiliary power available. The setup of the unit is simple and fast allowing to take measurements within minutes.

The most outstanding feature is that it can be used for testing of MV and HV cables, power and distribution transformers, motors and generators, GIS and MV switchgears together with the right combination of sensors and filters.



TiSCADA: Complete Network Monitoring – one user interface for all condition data

TiSCADA offers one platform to monitor the condition of all assets in a network like transformers, cables, switchgears and rotating machines using TECHIMP's sensors and data acquisition systems for Partial Discharge, Dissolved Gas Analysis, Tan-D but also third party devices.

Any diagnostic quantity, such as vibration monitoring, magnetic flux, temperature hot spots and operation quantities, such as power factor, cooling flow etc., can be implemented in order to achieve extensive information on apparatus condition. This helps our customers to have all information on one user interface.



PPS: Permanent Power Supply – where no auxiliary power is available

The PPS is a unique device, developed to provide permanent auxiliary power for a continuous monitoring system at cable joints of HV cables.

HV cables have often many kilometres in length. To cover the different sections of the cable with PD monitoring, sensors and acquisition units are installed at every joint and termination. In some cases of remote locations, no auxiliary power is available to power up the acquisition units. For these cases the PPS has been developed to ensure a safe and constant operation of the acquisition units.

Segments

specific solutions for specific requirements



Transmission - Distribution

Diagnostic Solutions for MV-HV Assets

TECHIMP offers online and offline testing and monitoring services and products for GIS, Power Transformers and HV cables in transmission grids. Being a global leader in condition monitoring of HV cables, TECHIMP is one of a few companies in the world offering sequential or simultaneous offline and online testing of HV cables and is having by far the biggest track record of projects executed globally.

But also for MV cables and switchgears as well as distribution transformers TECHIMP offers a vast range of online and offline testing and monitoring services and products.



Oil & Gas

Complete Network Condition Monitoring
Ensuring Availability of Production
Processes

Motors, Pumps, Generators, Cables, Transformers, Switchgears are the most critical components in an electrical subsystem of Oil & Gas plants and, in fact, their failure is among the first causes for system outages in Offshore Production Platforms, Oil/Gas Fields, Refineries, Petrochemical Plants & Power Generation Plants.

TECHIMP offers a complete system for on-line condition assessment by means of own monitoring solutions and integration of 3rd party data acquisition units on one platform.



Power Generation

Solutions for Generators and
GSU-Transformer

Preventing the power production from an unplanned shut down and subsequently from loss of revenues TECHIMP provides state of the art condition monitoring for generators and GSU transformers.

In more and more cases the operating conditions have completely changed in these days as a tribute to the new energy mix. This equipment has now to be capable of carrying load changes which causes significant more stress on the insulation systems and makes them more vulnerable to insulation breakdowns.

TECHIMP's monitoring systems measure trends and identify upcoming faults.



Process Industries

Testing Services and Monitoring Solutions

Safe and reliable power supply is the backbone of each industrial process. Millions of Euros are lost every year as a result of unplanned outages in the Oil & Gas and process industry. Cable failures and motor breakdowns are often the cause for a stop of a complete production process.

Advanced monitoring technologies allow early detection of upcoming faults and support asset management decisions (e.g. extension of lifetime and CAPEX/OPEX allocation). TECHIMP offers a wide range of diagnostic tools from spot testing to permanent monitoring of individual assets and complete networks.



Marine and Transportation

Service and Monitoring Solutions for Ships and Railways

In these days, cruise ships have the size of a small city, including the same MV infrastructure for power distribution.

TECHIMP has performed many site surveys of the electrical infrastructure inside ships. Despite electrical systems installed on board of ships must be redundant, the breakdown of a propulsion, thruster or compressor motor, a generator, the main switchboard and even transformers and cables may have serious consequences and may lead into long downtimes.

TECHIMP offers bespoke systems for early identification of upcoming faults.



OEMs

Partner for the OEM Industry

TECHIMP has a close cooperation with all major OEMs. TECHIMP is supplying laboratory equipment to support the R&D activities as well as having exclusive agreements for the provision of services and products.



Renewables

Testing and Monitoring of Electrical Components in Windfarms

Condition assessment of electrical equipment of windfarms is likely one of the most challenging tasks in asset management of power generation. Stresses which come from power electric pulses to harsh environment affects wind turbines electrical components. Additionally wind turbines are expensive and critical components, due long times required to inspect, replace or restore after failure in particular in off-shore installations.

The reliability of electrical systems in the presence of frequency converters may be reduced significantly by the occurrence of Partial Discharges (PD) and voltage/current transients, which can affect the insulation of the electrical equipment installed. Impulse voltage supply gives rise to over-voltages and uneven potential distributions which stress dramatically electrical insulation. It has been demonstrated experimentally that ageing under high-frequency impulse waveforms is accelerated significantly with respect to sinusoidal waveforms.



TISCADA COMPLETE NETWORK MONITORING

After years of advanced research, laboratory and on-field tests, TECHIMP has developed powerful and effective tools which can help asset managers to take critical decisions and manage power plants in a cost saving way.

TISCADA offers one platform to monitor the condition of all assets in a network like transformers, cables, switchgears and rotating machines using TECHIMP's sensors and data acquisition systems for Partial Discharge, Dissolved Gas Analysis, Tan-D but also third party devices.

Assets

protect your investments



HV Cable

World Class Technology for HV Cable Monitoring

TECHIMP is the global leader in testing and monitoring of HV cables documented by an impressive reference list build up over the last 15 years.

Besides FAT consulting and spot testing during operation, TECHIMP offers for HV Cables sequential or simultaneous offline testing during commissioning at every joint and the terminations of the cable. The scope is completed by permanent online monitoring systems.



Transformer

Integrated Global Monitoring™ for Transformer

TECHIMP offers a wide range of sensors and systems to monitor the condition of power transformers forming them to the unique Global Monitoring™ for transformers.

A combination of PD, Tan-D and DGA provides the best protection available for a highly complex and expensive asset. All components have been developed by TECHIMP ensuring a perfect interaction.



Rotating Machine

Testing Services and Monitoring Solutions

Motors and Generators are characterized by a complex electro mechanical system being exposed to different stress factors: thermal, electrical, ambient and mechanical (TEAM). These factors are causing the aging of the insulation. By increasing the stress due to load changes, overvoltage or hazardous ambient areas the ageing can be accelerated.

In order to prevent a break down of the machine before the end of the design life, monitoring will help to identify and to implement the right operation and maintenance strategy. TECHIMP offers a wide range of testing services and continuous monitoring solutions from individual motors up to complete power plants.



TECHIMP PD HUB

TECHIMP's Partial Discharge (PD) Monitoring system usually consists of a Central Unit and distributed Data Acquisition Units – the PD Hub™ - able to acquire and process the PD signals locally detected through PD sensors installed on each of the main electrical assets (generators, transformers, HV cables and GIS). Per each set of three, six or twelve PD sensors, one PD Hub™, consisting of an Acquisition Unit (PDCheck™ or PDScope™) housed in an IP65 Acquisition Box, will be installed close to the asset under monitoring.

The PD Hub™ will collect the partial discharge signals (high frequency signals) coming from the sensors. A fiber optic communication network will connect all PD Hubs™ to the Central Unit placed in the Control Room, where the partial discharge data will be collected, stored and processed on the brand new TISCADA platform.

The PD Hub™ can also be installed as a standalone device for permanent monitoring of the asset while data are stored internally and are available for download at any time for detailed evaluation.



Variable Speed Drives

An ultimate technology suitable for converter fed motors and Adjustable Speed Drive (ASD) applications

Adjustable Speed Drives (ASD) are already widely employed in industrial and technological applications for their significant advantages of speed control and efficiency. However, over the last decade a growing number of premature failures has been experienced in motors fed, in particular, by pulse width modulation converters.

TECHIMP in the last years has addressed this issue and has developed an ultimate technology suitable for converter fed motors and, in general, Adjustable Speed Drive (ASD) applications.



MV Switchgear

Testing Services and Monitoring Equipment for MV Switchgear

TECHIMP offers services and products for the condition assessment of MV Switchgear.

For PD measurements usually a combination of HFCT and TEV sensors together with the Aquila™ - the portable PD unit (for spot measurements) or the Smartsensorgrid™ (for continuous online monitoring) is used.

OEMs are using our PDBasel™ for quality assurance and FAT.



Gas Insulated Switchgear

Diagnostic tools for Gas Insulated Systems

Gas Insulated Switchgears (GIS) have attained a very high degree of reliability and availability. Nevertheless, failures cannot totally be excluded, as shown by in-service experience.

The root cause for such defects can be manufacturing and commissioning or may be caused by aging. Such defects shall be found as early as possible, in any case before an outage is caused. Partial discharge (PD) measurement using UHF sensors is the most common technology used to diagnose conditions of insulation in Gas Insulated System (GIS). If internal sensors are not available, TECHIMP provides a complete range of sensors for PD analysis in GIS with accessories, developed and optimized for best sensitivity and maximum flexibility.



MV Cable

Detection of Partial Discharges (PD) is a fundamental tool to assess the condition of MV Cable Systems

Customers around the globe and from all segments rely on TECHIMP's expertise for spot testing and fleet screening of MV cable.

Trending of PD phenomena during cable system life through on-line PD measurements (in permanent or non-permanent way) can be a very effective method to keep the degradation processes under observation and control, particularly if also quantities other than PD are monitored at the same time (e.g. temperature, current, dissipation factor).

In such a way, correlation between possible PD inception with load and thermal cycling can be derived and other degradation modes, as the presence of water trees, are surveyed.

Services

TECHIMP offers diagnostic condition assessment services for all electrical MV/HV assets. Customers around the globe benefit from the broad experience of the TECHIMP service team.

Service engineers are located in Southern Europe, North America, South America and Central Europe.

Besides ON-line and OFF-line PD spot testing, our engineers perform condition assessment by measurements such as PI (polarization index), Tan-D, TDR (Time Domain Reflectometry) and insulation resistance.

After each test and inspection performed customers receive a comprehensive test report as a basis for further asset management decisions.

Off-line HV Cable PD testing

TECHIMP is a world-leading company with outstanding field-proven competencies and experience in on-site HV cable testing. For commissioning of HV cables TECHIMP offers two technologies:

Simultaneous PD testing

During a simultaneous PD test, all accessories of the HV Cable, like terminations and joints, will be tested at the same time.

Measurements will be taken by means of either permanently or temporarily installed sensors and data acquisition units on each accessory.

Sensors and acquisition units (one for each 3/6 phases) are interconnected through a fiber optic ring. Data are stored in the device internal memory and can be downloaded in a later stage in total safety.

For this test the required RTS unit has to be powered-up only once.

Sequential PD testing

During a sequential PD test, the accessories of the HV Cable, like terminations and joints, will be tested one after the other.

Measurements will be taken by means of either permanently or temporarily installed sensors and portable data acquisition units.

For this test the required RTS unit has to be powered-up and shutdown sequentially.

Further services:

FAT

On Rotating Machines, Variable Speed Drives, GIS, MV/HV Cables, MV Switchgears, Transformers

Off-line VLF spot testing

On MV Cables, Motors

Off-line spot testing

On Transformers, Rotating Machines and MV/HV Cables

On-line spot testing

On Rotating Machines, Variable Speed Drives, GIS, MV/HV Cables, MV Switchgears, Transformers

Commissioning test

On Rotating Machines, Variable Speed Drives, GIS, MV/HV Cables, MV Switchgears, Transformers



CableWISE - predictive maintenance on MV cables

CableWISE is a unique, non-destructive on-line electrical system condition assessment process that enables circuit owners at a wide range of commercial/industrial facilities to evaluate the condition of cable systems, accessories, and switchgear.

CableWISE technology was developed and initially implemented in 1984 on a Detroit Edison 138 kV rated cable system.

Additional research and development ensued over the next several years with a focus on distribution-class cables. The technology can successfully detect the deterioration in cables, splices, and terminations on both new and aged cable systems.

On-line Expertise

- Assessment is performed on-line at system voltage; no over-voltage is applied
- Non-destructive: CableWISE assessment does not shorten the remaining life of the cable accessories, or other equipment
- Non-invasive: No outages or switching operations are required
- Provides "true" assessment of cable system under operating conditions

Service card

On Rotating Machines, Variable Speed Drives, GIS, MV/HV Cables, MV Switchgears and Transformers

In combination with the purchase of one of our Partial Discharge diagnostic instruments, customers have the opportunity to enjoy the following benefits for one year (according to the terms and conditions stated in the Service Card Agreement).

- Data analysis service
- Technical support

Do you want to learn more about Partial Discharge and CBM approach?

PD ACADEMY

In the PD Academy TECHIMP offers basic and advanced condition assessment trainings for beginners and specialists. The trainings offer asset related topics, asset management technologies and testing methods. Advanced training courses provide knowledge on data analysis and interpretation.

Training courses are held at TECHIMP Italy or at customer premises.

Please refer to our website for the actual training schedule.

Products

TECHIMP has solutions covering the full diagnostic tooling needed for any practical application in electrical systems: Sensors & Accessories, Acquisition Units, SCADA and advanced Diagnostic Software.

Smart sensors

With Smart Grid investment rising continuously throughout the whole utility sector, TECHIMP smart diagnostic systems add even more value to global asset management, encompassing service continuity, improved efficiency, system reliability and minimum maintenance costs all in a global monitoring framework.

Acquisition units

TECHIMP solutions for partial discharge on-line diagnostics of electrical systems allow effective Condition Based Maintenance practice and Risk Assessment to be achieved, through innovative technologies for noise rejection and PD source identification.



PDHUB™

IP65, IP 68 and ATEX compliant. Available for 3/6/12 channels applications and fully customizable.

Laboratory equipment

All you need for a thoroughly integrated diagnostics from factory quality assessment to component design and harshest installation conditions.



TECH SQUARE

Qualification and quality control tests. Compliant with the new IEC standards: IEC 60034-18-41 and IEC 60034-18-42.



CAPACITIVE DIVIDER

A capacitive coupler ideal for partial discharge measurements.



DGA-XL

DGA-XL is the new TECHIMP Dissolved Gas Analysis Intelligent Sensor, which implements on-line monitoring of insulating oil through CO, H₂ and moisture measurements.



SMART SENSOR GRID

Smart Sensorgrid belongs to the smart sensor family devised for on-line PD monitoring of diagnostic quantities in electrical assets. It provides traffic-light alerts to SCADA systems / asset and maintenance service.



TD GUARD

Ultimate solution for transformer monitoring. TD Guard Intelligent Sensor is the first and only instrument on the market providing absolute Tan-D measurement in on-line permanent monitoring of transformer bushings, granting the best level of diagnostic leverage and reliability.



PDCHECK

PDCheck is a compact, standalone, global diagnostic system for the condition assessment of MV and HV electrical systems. Integrated AC and DC input channels can be used to acquire correlated quantities.



PDSCOPE

Ultimate solution for industrial monitoring designed to suit all the requisites of the TECHIMP TiSCADA systems for on-line monitoring of diagnostic quantities in electrical assets.



AQUILA

Portable PDCHECK. A practical system integrating TECHIMP innovative PD detection technology with multiple connectivity (Wi-Fi, Fiber Optics, USB, Bluetooth) and power supply.



HV TEST BENCH

It is a deeply customizable test bench which is suitable to generate frequency and amplitude controlled voltage.



PEA

Space charge measuring equipment.

TECHIMP is the only company offering testing devices for space charge measurements on cables and flat specimens.



PD BASE II

The ultimate solution for industrial monitoring & quality control. PDBase II® has been expressly designed as a system able to collect a large number of PD pulses and separate them according to their waveform.

Products

sensors and accessories



FMC

Flexible Magnetic Coupler based on a direct magnetic coupling with the cable conductor and shield.



HFCT CLAMP

inductive sensor for partial discharge measurements. suitable for online /off line PD tests (39-140 mm).



HFCT

high performance inductive sensor for partial discharge measurements (30-50 mm).



HORN ANTENNA

broadband antenna with a flat response for GIS/TFX.



ITSM SYNCRO

Impulsive Test Sync. Module is a device aimed at generating a digital synchronization signal.



NLFA NOTCH

designed to allow the correct synchronization when resonant test are performed.



PD CALIBRATOR

reliable / portable source reference for PD measurement.



PD COUPLER

TECHIMP capacitive PD couplers offer both the PD and sync signals references.



PPS

the PPS is a unique device, developed to provide permanent auxiliary power for an continuous monitoring system at HV cable joints.



SPIRAL ANTENNA

optimized to operate in the PD frequency range.



UHF SENSOR

optimal sensor for direct installation on high voltage transformer.



TAP ADAPTER

is gender changer which allows the user to connect to the test tap of high voltage transformer.



TEM ANTENNA

the optimal sensor for direct installation on medium voltage switchgears and motors.



TEV ANTENNA

is based on a direct capacitive coupling with a switchgears earthed metal case.

Ultimate solution for portable monitoring

AQUILA

15 years of service experience has been condensed in this unit integrating TECHIMP innovative PD detection technology with multiple connectivity (Wi-Fi, Fiber Optics, USB, Bluetooth) and power supply.

The instrument can be used to measure on-line and off-line any electrical asset at any level of voltage and for any voltage waveform. It can be also used to install a permanent monitoring system, maintaining the needed degree of safety. Connection via fiber optic allows a network of acquisition units to be checked in different measurement points.

BENEFITS

One for All, one device for all assets like cables, transformers, rotating machines and switchgears

Innovative instrument for Partial Discharge recording & processing

Ultra Wide Band, fast integrated processing capability

Compact, PD Pulse detector and waveform analyser, with embedded 11" HD industrial tablet for instrument control and data analysis

Multiple Connectivity (Wi-Fi, Fibre Optics, USB, Bluetooth)

Easy Soft, software for automatic testing and reporting: **NO SKILL NEEDED!**



Monitoring and diagnostic solution for complete network monitoring and diagnostic

TiSCADA

Complete Network Monitoring, one user interface for all condition data

TiSCADA offers one platform to monitor the condition of all assets in a network like transformers, cables, switchgears and rotating machines using TECHIMP's sensors and data acquisition systems for Partial Discharge, Dissolved Gas Analysis, Tan-D but also third party devices.

TiSCADA is able to extract, manage, combine and derive data from a wide set of sources.

From detection and analysis of the properties associated with most harmful failure processes of MV/HV assets (like partial discharges, flux sensors, vibration sensors, analog and digital sensors) and many other according to the customer requirements. Including real-time acquisition of the main plant parameters (environmental data, third party diagnostic systems).

[This helps our customers to have all information on one user interface.](#)

Single projects can be created, managed and modified by means of the in-built WEB designer module, based on customizable graphical objects. Projects can then be run in simulation or as 24/7 monitoring system.

Multi Standard Protocols (OPC/IEC61850/DNP3/MODBUS) are implemented in order to guarantee high reliability data exchange needs.



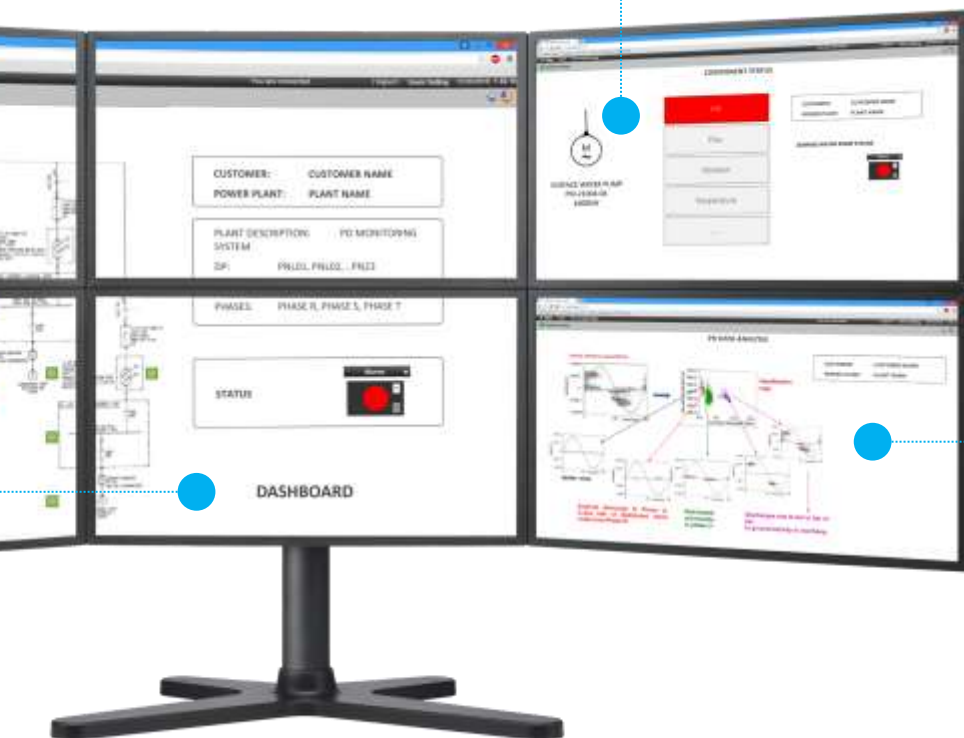
Dashboard

The dashboard provides a fully customizable graphic interface with maximum flexibility. Warnings are easily managed and displayed.



Asset view

By click on the warning the event view opens-up and provides information of the different condition parameters on asset level.



Data viewer & analysis

By click on one of the condition parameters the data viewer & analysis page opens-up and provides detailed information and analysis.

Correlation between different condition parameters allows more accurate assessment.



Browser-based environment for collaborative data analysis, exploration, and visualization.

Product matrix

Need help to find your product?

SENSOR AND ACCESSORIES	FMC			●	●	●		
	HFCT 140mm			●	●	●	●	
	HFCT 30-39-50mm	●	●	●	●	●	●	●
	HORN ANTENNA			●	●		●	●
	ITSM SYNCRO	●	●					
	NLFA NOTCH				●	●		
	PD CALIBRATOR	●	●	●	●	●	●	●
	PD COUPLER	●	●			●	●	●
	PPS				●			
	SPIRAL ANTENNA			●				
	UHF SENSOR						●	
	TAP ADAPTER						●	
	TEM ANTENNA					●		●
	TEV ANTENNA			●		●	●	●

- ROTATING MACHINE
- VARIABLE SPEED DRIVES
- GAS INSULATED SWITCHGEAR
- HV CABLE
- MV CABLE
- TRANSFORMER
- MV SWITCHGEAR

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<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PEA	

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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TISCADA	

MV SWITCHGEAR
 TRANSFORMER
 MV CABLE
 HV CABLE
 GAS INSULATED SWITCHGEAR
 VARIABLE SPEED DRIVES
 ROTATING MACHINE

Mission

Translate Base Research into Innovations for on-field applications and Customers benefit.

Be focused to what Customers and Partners need, improving efficiency and reliability of their assets and Minimizing Customer Costs.

Provide the highest level of technology, services and assistance to our Customers.

These are our mission and values, in which we strongly believe and keep focused in our products and services improvements.

Commitment to Quality

We have developed a quality-oriented development process from the early research stage to the final industrialization of our products, to ensure the highest quality standards. We are an ISO 9001:2008 Certified company, we meet all the major international standards and regulations. Our products and services are continuously monitored and improved by feedbacks coming from field experiences and rigorous internal testing procedures.

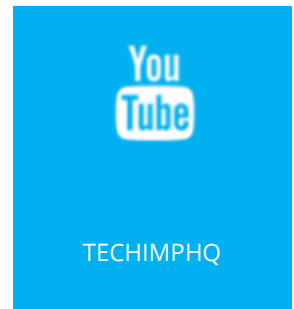
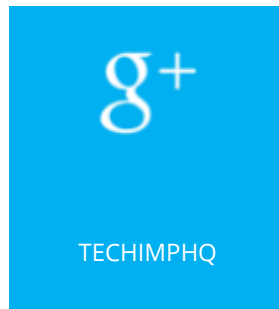
Research & Innovations

We spend major efforts and resources in R&D activities by advanced research programs, collaborating with research excellence centers, to bring customers the more advanced and innovative solutions for their technical problems or reliability issues. We have professionals coming from a wide range of different technical fields, adding value to the innovation process and contributing to create novel solutions.

Value-Added Services: We offer Value-Added Services to customers other than ordinary field-services, giving consultancy, coaching, teaching for best profiting of our solutions.

Customer Satisfaction: We are committed to customer satisfaction. We pay attention to customer suggestions and requests and we make our best to fulfill their needs in specific development and improvements of our products. We always try to meet Customers will and necessities with suitable customizations of the proposed solutions.

Experience & Professionalism: We always seek for experience and professionalism looking for the best specialists, partners and suppliers in our development and industrial activities. Our technicians, after years of field-experience, can offer to customers precious support and consulting activity for any kind of problem they could have.



you
can find
out more
on our
website



www.techimp.com



YOUR PARTNER IN ASSET MANAGEMENT AND SMART GRID

TECHIMP 100% committed to innovation and research



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