



www.enertronic.es

**Technological Solutions
in Metering, Management,
Automation, Protection
and Control.**





PROYECTOS Y
SUMINISTROS S.A.



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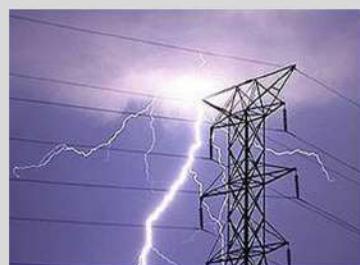


Providing specialized technological solutions within everyone's reach



Enertronic Proyectos y Suministros is a company focused on offering exclusive and specialized technological solutions covering different areas such as industrial, energy generation and distribution, telecommunications, renewable energy, data center and services sector.

Our goal is to offer clients solutions that guarantee high profitability and safety, while offering professionalism, reliability, integrity and constant innovation, taking care and respect for the environment for the benefit of our actual and future society.



ENERTRONIC TECHNICAL SUPPORT

Enertronic offers technical support on its own (**ESP**). From operations to communication, through installation, integration and commissioning, offering the security and stability of your project quickly and efficiently.



ENERTRONIC REPAIR SERVICE



In addition to the ESP program, Enertronic offers a repair service (**ESR**) through its partner IDAS Solutions specialized in motors, servo motors, AC VSD and all types of industrial electronics.



CERTIFICATES

Enertronic Proyectos y Suministros S.A. is a company registered in Achilles / Repro, ISO9001:2015 certified and provides technology and products to certify ISO50001 systems.





**Protection Specialist against
transient overvoltages.**



Transient Overvoltage Protection:

- ✓ Low Voltage.
- ✓ Photovoltaic.
- ✓ Led Lighting.
- ✓ PC network, telephony and data.
- ✓ Coaxial RF.
- ✓ Gas discharger.

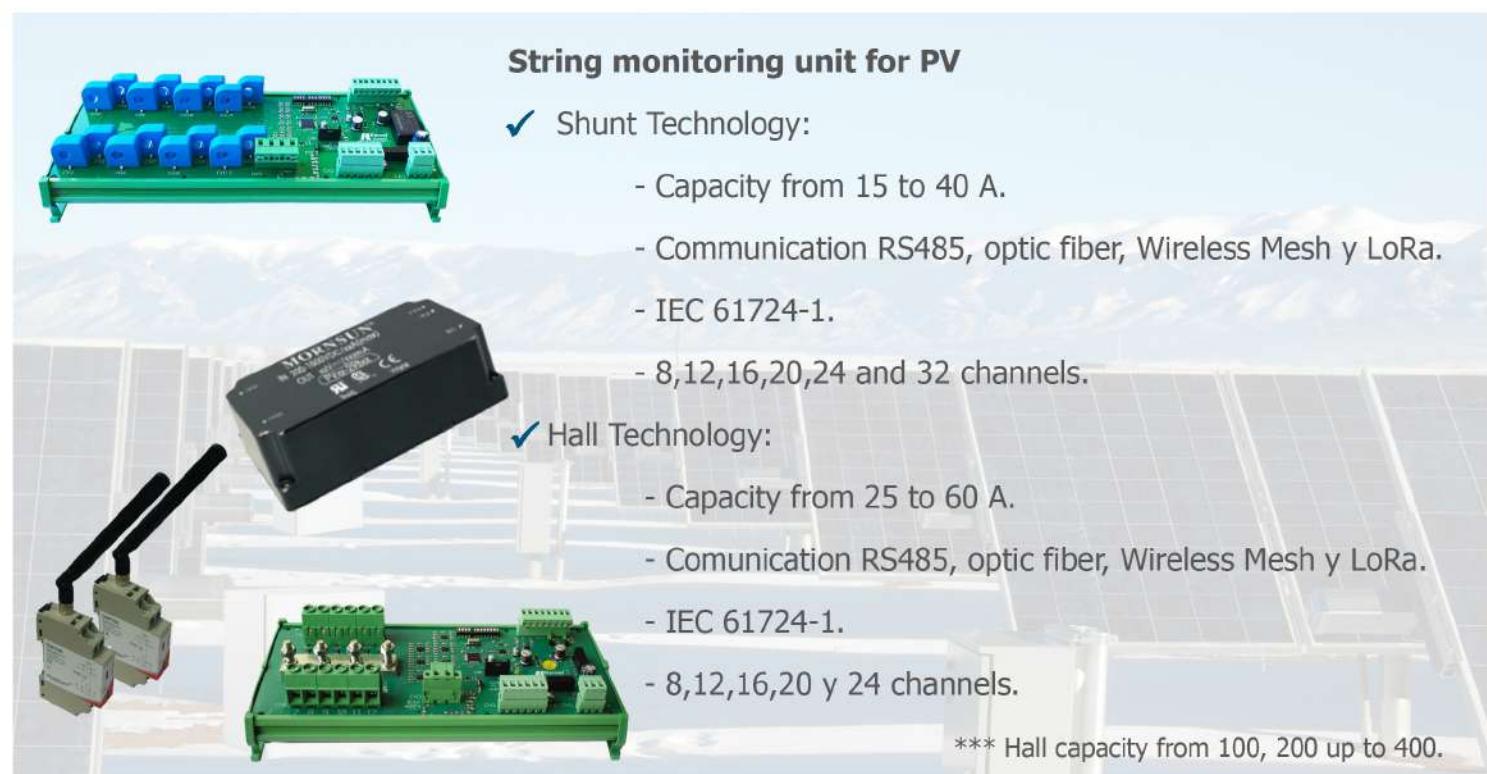


Photovoltaic Monitoring System

String monitoring unit for PV

- ✓ Shunt Technology:
 - Capacity from 15 to 40 A.
 - Communication RS485, optic fiber, Wireless Mesh y LoRa.
 - IEC 61724-1.
 - 8,12,16,20,24 and 32 channels.
- ✓ Hall Technology:
 - Capacity from 25 to 60 A.
 - Communication RS485, optic fiber, Wireless Mesh y LoRa.
 - IEC 61724-1.
 - 8,12,16,20 y 24 channels.

*** Hall capacity from 100, 200 up to 400.





ADLER PV

Photovoltaic Fuses and holders.

gPV Fuses for Photovoltaic applications:

✓ Cilindrical fuses.

- A73 series 10x38 1000VDC up to 30A.
- A75/ A85 series 10x85 1500VDC up to 32A.
- A94 series 22x58 1500VDC up to 65A.
- A95 series 24x65 1500VDC up to 100A.

✓ Blade Fuses.

- NH fuses, AX series, 1500VDC up to 400A.

✓ Fusibles In-line (harness) 1500VDC up to 32A.



ADLER EV

Electrical Vehicle and Charging Station Fuses.

Electrical Vehicle protection.

✓ Cilindrical fuses.

- AE3 series 10x38 850VDC up to 50A.
- AE6 series 14x65 1000VDC up to 60A.

✓ Blade fuses.

- NH fuses AEX series 1000VDC up to 600A.
- NH fuses AE5 series 500VDC up to 500A.

✓ Alternate current Fuses.

- AEE series 690VAC up to 630A.
- AEC series 700VAC up to 550A.

Nader

High Performance Low Voltage Electrical Protection.

Low Voltage Solutions

- ✓ Motorized Disconnector 1500VDC - 4000A.
- ✓ Contactors AC/DC 1500VDC- 400A.
- ✓ MCCB 2,3,4 poles 1000VAC/1500VDC.
- ✓ ACB 3 and 4 poles 1000VAC/1500VDC.
- ✓ Automatic Transfer Switches.
- ✓ Magnet- Hydraulic.
- ✓ Modular Automatic Recloser.



Delta CIS

UPS - SAIs. Uninterrupted Power Supply.



Modular and Monobloc.

- ✓ Capacities from 600 VA up to 9MW.
- ✓ Li-Ion battery availability.
- ✓ 100% capacity efficiency.
- ✓ Optimal TCO.
- ✓ Optimized space.

- Smallest footprint of the market.



Automation

- ✓ VDF from 450 w up to 690 kW.
- ✓ Programmable PLCs.
- ✓ PLC Codesys.
- ✓ HMI.
- ✓ Servomotors:
 - High precision, robustness and repeatability.
- ✓ Temperature controllers.
- ✓ Pressure and Control sensor.



CODESYS



Connectivity Solutions:

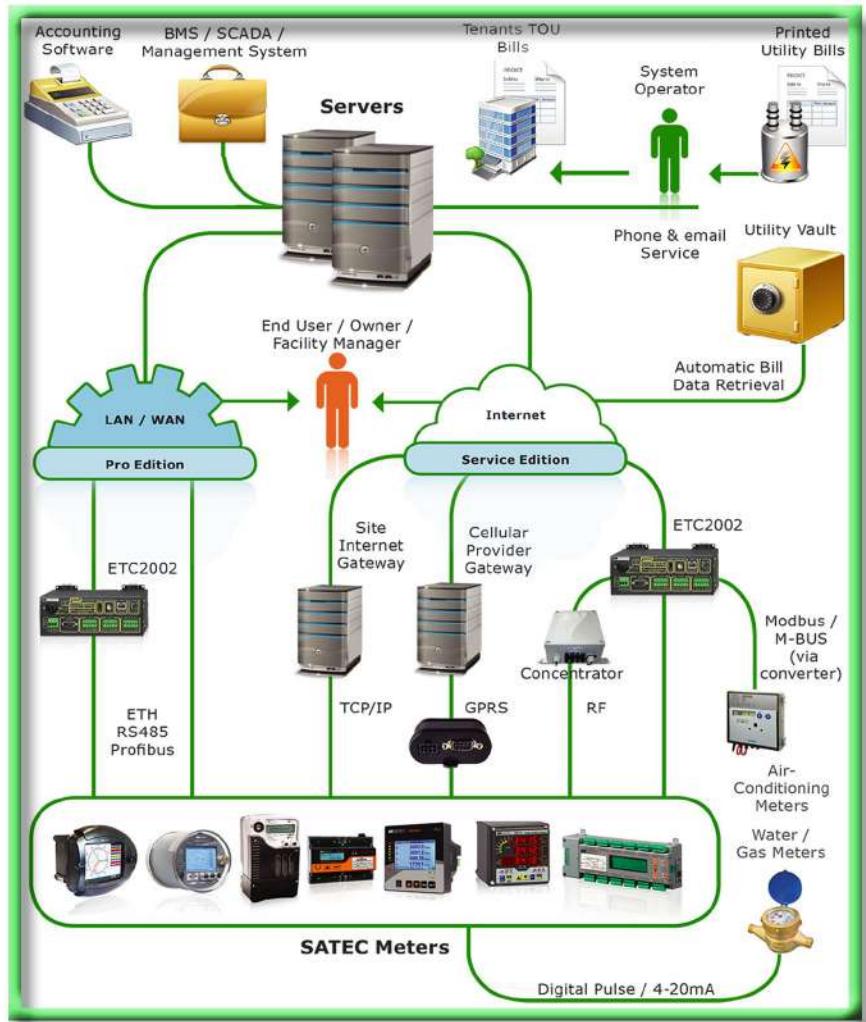
- ✓ Switches.
 - Extended temperature range.
 - Managed and Un managed.
- ✓ Ruggedized.
- ✓ Layer 2 y Layer 3.
- ✓ 3G Router (Dia Cloud)/4G WiFi.
- ✓ RJ45/ Fibre transceiver.

Power Supply

- ✓ Single phase and 3 phase:
 - DIN rail.
 - Fanless.
- ✓ UPS modules, redundant and buffer.



Energy Management System.



Expertpower Energy Management System.

- ✓ Data query.
- ✓ Billing automation.
- ✓ Customized reports.
- ✓ Monitoring of Energy Saving Plans.
- ✓ SaaS (cloud) or PRO (server) versions.
- ✓ Power Quality Analisys (EN 50160).



SATEC metering devices:

- ✓ Measurement devices for AC and DC.
- ✓ Accuracy from 0,5s.
- ✓ Multichannel meters (up to 54 single phase).
- ✓ High performance meters A class - 0,2s.
- ✓ Power Quality Analysis EN 50160.
- ✓ IEC 61850 - IEC 60870 Protocols.
- ✓ High Accuracy Current Sensors (HACS).
- ✓ Easy integration in any SCADA / EMS.
- ✓ Free Analysis and configuration Software (PAS).



Applications:

- ✓ Stations / Substations.
- ✓ Energy Storage Solution (ESS, BESS ...).
- ✓ Renewables (Wind, PV, PPC ...).
- ✓ Telecommunications (DCD, BTS, Datacenter ...).
- ✓ Management demand (load / unload).
- ✓ Power Quality Analysis (Phasorial, EN 50160 ..).
- ✓ Generator synchronization (Sinchro phasorial - PMU).
- ✓ RS5S option - Non invasive measurement.



Specialist in Obstruction Lighting.



Beacon Obstruction Lighting:

- ✓ Low, medium and high intensity lighting.
- ✓ Type A, B and C beacon.
- ✓ Led, Neon and Xenon.
- ✓ Solar Kit.
- ✓ High Voltage cable day marker beacon and conductor warning light.

WoMaster

Communications Specialist.

IOT y Sensórica.

- ✓ Specific communications devices for:
 - Railway (IEC50121).
 - Energy (IEC61850).
- ✓ Router
 - MQTT/ 5G/ MESH/ NB-IoT/ LoRa.
- ✓ OPC UA & Node Red.
- ✓ Atmosphere sensors.



Smart Sun



Play Solar Pump controller

Efficient Solar Pumping.

- ✓ Ready to connect without programming nor adjusting.
- ✓ Hybrid AC/DC option with dual control.
- ✓ Up to 690 kW.
- ✓ WiFi and Machine Learning algorithm.
- ✓ Record and customize all the working parameters to the actual working conditions of the site.



PCE M MERZ Switching Devices.

CARLO GAVAZZI Industrial Automation.

CHINT
CHINT ELECTRIC Low Voltage Electric.

AEG Low Voltage Switchgear.

trafag
sensors controls Sensor for pressure and temperature.

PRECIZIKA
METROLOGY Encoders.



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