

ELECTRICITY TRANSMISSION AND DISTRIBUTION



Our solutions
for measurement,
testing and analysis



Measure up



Innovative solutions... to accompany networks' energy transition



Performance

We have mastered the design and production of products with critical functions for harsh environments

- 7 R&D centers in the Group, including 2 dedicated to Chauvin Arnoux Energy
- Mastery of the business and quality reference standards
- 3 production sites located in Normandy (France) 20,000 square meters devoted to production
- Component supply and all the product manufacturing phases are handled by Chauvin Arnoux.

ISO 9001 | ISO 14001

IEC 61000-6-5 | IEC 60688 | IEC 61557-12
IEC 61000-4-30 | EN 50470-1/3...



Complete range

We have been helping network managers with the development of critical functions for decades

- An extensive offering covering all your electrical network measurement, testing and analysis needs
- Tailored solutions adapted to the specific issues facing network administrators
- Product compliance and availability ensured for decades
- An offering designed to support your technological migrations



PQDIF



Innovation

Innovation stands at the heart of our approach to develop our offering

- 11% of sales revenues invested in R&D
- Member of the IEC working parties
- Assistance with the investigations and implementation of demonstrators, crucial steps for validating a technical solution before roll-out.
- Research partnerships with Universities



They trust us



Our offers for transmission and distribution

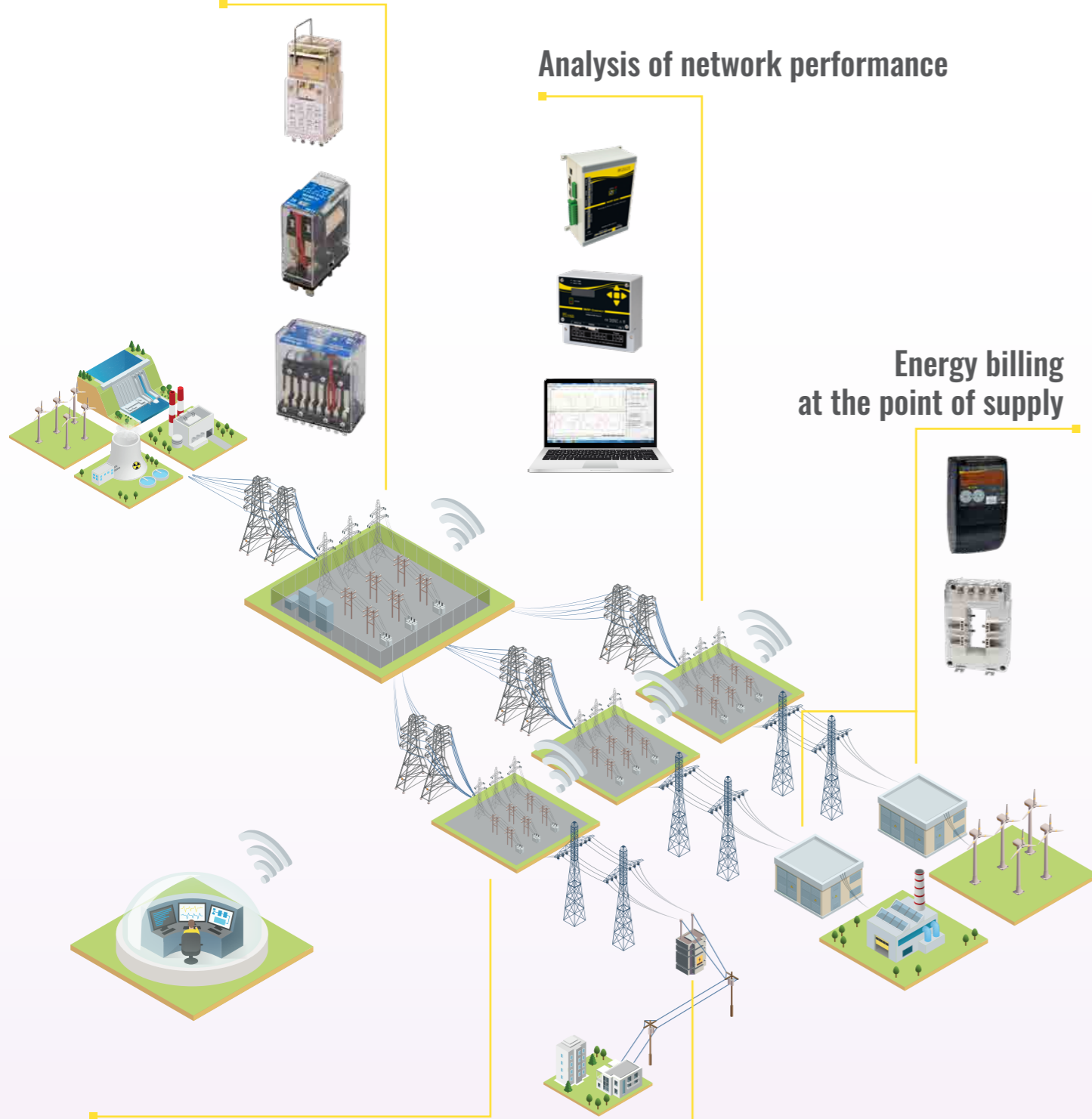
Control of critical loads

Analysis of network performance

Energy billing at the point of supply

Control of electrical processes

Optimization of Low-Voltage equipment



Control of critical loads

Auxiliary relays Automation relays

Range of relays for demanding applications where reliability is crucial. Our relays guarantee a very high level of isolation, up to 5 kV. They are equipped with contacts capable of breaking heavy inductive loads or light resistive loads.



Monostable relay

- 2 to 20 CO contacts
- Fast-response relay



Bistable relays

- 3 to 20 CO contacts
- Fast-response version < 10ms
- Manual reset lever
- Permanent or pulsed power supply

Time-delay relays

- 4 CO contacts
- Time delay from 100 ms to 16 hrs

Wide choice of associated sockets
Possibility of tailored products

Analysis of network performance

EQUAL PREMIUM SERVER

Solution for electrical network quality supervision

For processing the data from a fleet of MAP power quality measuring instruments

- Thorough evaluation of electrical network quality over a period of several years
- Management of a large-scale fleet of network analyzers
- The most user-friendly solution on the market



MAP range Electrical network analyzers

For thorough analysis of all the subtleties of an electrical signal

- IEC61000-4-30 Class A
- 24/7 recording of electrical disturbances
- Analysis of EN50160 parameters
- Dips, outages, 2 MHz fast transients



Our offers for transmission and distribution

Control of electrical processes



TRIAD2 range Measurement transducers

Ideal for measurement applications in the context of network supervision

- IEC 60688 Class 0.1
- Compliant with IEC6000-6-5 power station environment
- 4 analog, RS485 or Ethernet outputs



ENERIUM range Power monitors

Particularly suitable for metering, measurement and detection applications in the context of network supervision

- IEC 62053-22 Class 0.2s
- Format 96x96 or 144x144
- Up to 8 x RS485 or Ethernet inputs/outputs
- Monitoring of EN50160 compliance



ELINK IEC61850 Communication gateway

Enables communication by ENERIUM power monitors and TRIAD 2 transducers via the IEC 61850 protocol

- IEC 61850 – Edition 2 server
- Compatible with RS485 Modbus for TRIAD 2 and ENERIUM
- Easy implementation using web pages

Energy billing at the point of supply



ALTYS Tariff meter

Designed for billing of electrical power consumers and generators connected to the medium-voltage network

- MID compliance: EN50470 Class C
- Up to 8 tariffs for 2 tariff schemes
- DLMS COSEM communication, on-off outputs and customer information



Range of LV current measurement transformers Current tariff transformers

Suitable for tariff metering applications

- Compliance: IEC 60044-1
- For cable and busbar primaries as well as wound primaries
- Class: 0.2s
- Multiple ratings



TRI500 / TRI700 range of plate-mounted three-phase transformers Current tariff transformers

Designed to meet the need for easy installation, protection and evolution of the requirements

- Compliance: IEC 60044-1
- For aluminum and copper cables
- Built-in short-circuiter for greater safety
- Class: 0.2s
- Multiple ratings

Optimization of LV equipment



ULYS MCM Multi-channel meter

Compact, high-speed solution for centralizing measurement on a large number of electrical feeders



- Compact: 18 three-phase meters in 1
- Flexible: compatible with a large number of sensor types
- Quick implementation: no cabling tools necessary
- Easy integration: multiple communication channels

See the GridWatch power station monitoring offer on the next page

GridWatch: Solution for LV equipment supervision



Build your network of MV/LV stations over the long term

- Prevent aging of the transformer and equipment
 - Optimization of planning and reduction of maintenance costs
- Trace and secure the energy flows
 - Reduction of technical and non-technical losses
- Optimize the equipment and new connections
 - Evaluation of the available reserve or the effective overloading of the feeders or transformers

Complete and upgradable



GridWatch comprises all the sensors used to supervise the critical points in an MV/LV station. Available in various versions, it adapts to the available space and budget for optimized roll-out. GridWatch can be equipped progressively with sensors to instrument the transformer and then extend the analysis to the station's electrical feeders.

Quick roll-out



To reduce station unavailability when the system is being commissioned, GridWatch has been designed for quick installation and roll-out: split-core sensors connected with just one click, prewired environmental measurement sensors, preconfigured wireless hot-spot sensors, etc.

Compatible with any system

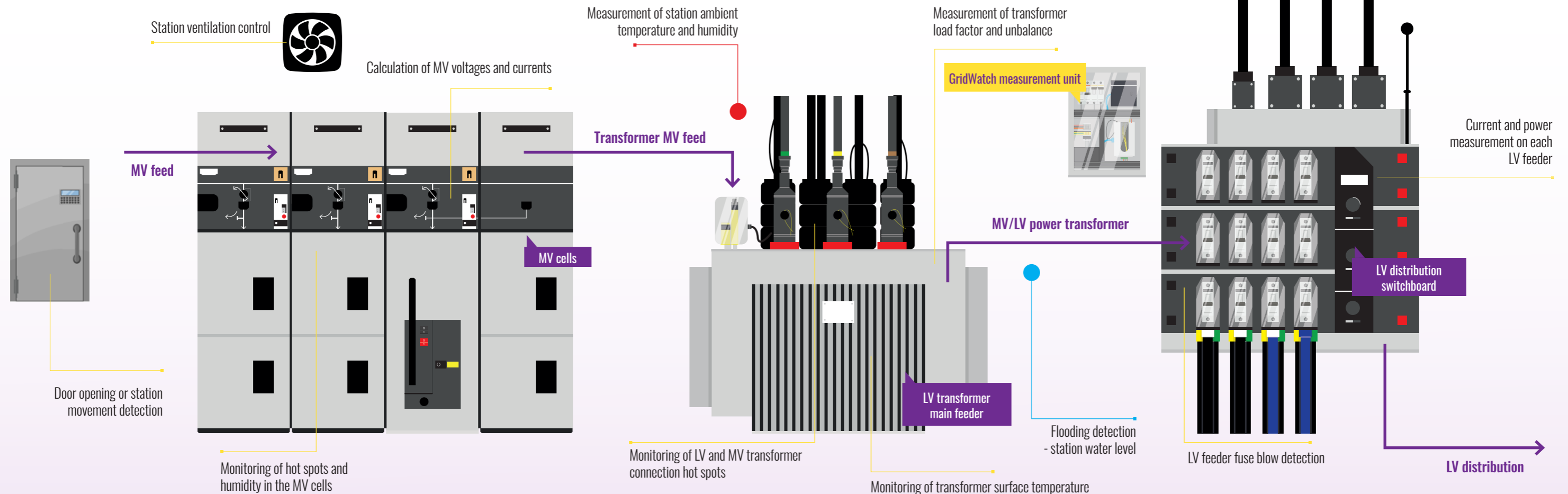


Equipped with 3G/4G or Ethernet communication, GridWatch can be checked remotely via integrated web pages. GridWatch makes the transformer station data available in real time or by sending files via multiple means of communication. Alarms can be sent by email or SMS text message. The associated system allows the administration of a large number of GridWatch units: geolocation, status monitoring, upgrades, etc.

Everything can be done using the remote application.



A tailored solution based on the integration of Ulys MCM



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