

Products for the nuclear industry

Relays - Transducers - Panel meters

- Analog and Digital Products
- Designed for the most demanding applications
- K3 Qualifications



A French signature



Chauvin Arnoux Energy, a French subsidiary of the Chauvin Arnoux Group, meets the specific needs of the nuclear industry by drawing on nearly fifty years of experience. From design through to final inspection of our products, our experienced and qualified teams guarantee quality, reliability, and durability.

Our entire expertise is concentrated in our four plants in France and Italy, which enable the Chauvin Arnoux Group to control the entire production chain: manufacturing of electronic boards, plastic injection molding, production of machined parts, assembly, adjustment, and inspection of finished products

Digital transducers and measurement units

Auxiliary systems and main power supply monitoring

TRIAD - ENERIUM

- Measurement of all electrical quantities: V, U, I, F, P, Q, S, Ea, Eq, Es, THDu, THDi, harmonics by order
- Compliance with IEC 61557-12 and IEC 60688
- Analog outputs, digital outputs, or digital communication (Ethernet/RS485)
- Compliance with cybersecurity requirements (ENERIUM)



Analog Transducer

Power Generation Process Control

T82N

- Multiple Functions: Currents (AC/DC) - Voltages (AC/DC) - Active and reactive power - Frequency - Phase angle and temperature - Accuracy class 0.5
- **IEC 60688 standard**
- Operating temperature: -10... +60 °C and enhanced seismic resistance

Current sensors

Metering cabinet

Shunts and instrument transformers

- DC current measurement (Shunt)
- AC current measurement (Transformer)
- Current range from 1 to 6,000 A
- Rugged and customizable design
- Accuracy class: 0.5 or 0.2 s



A sustainable offering



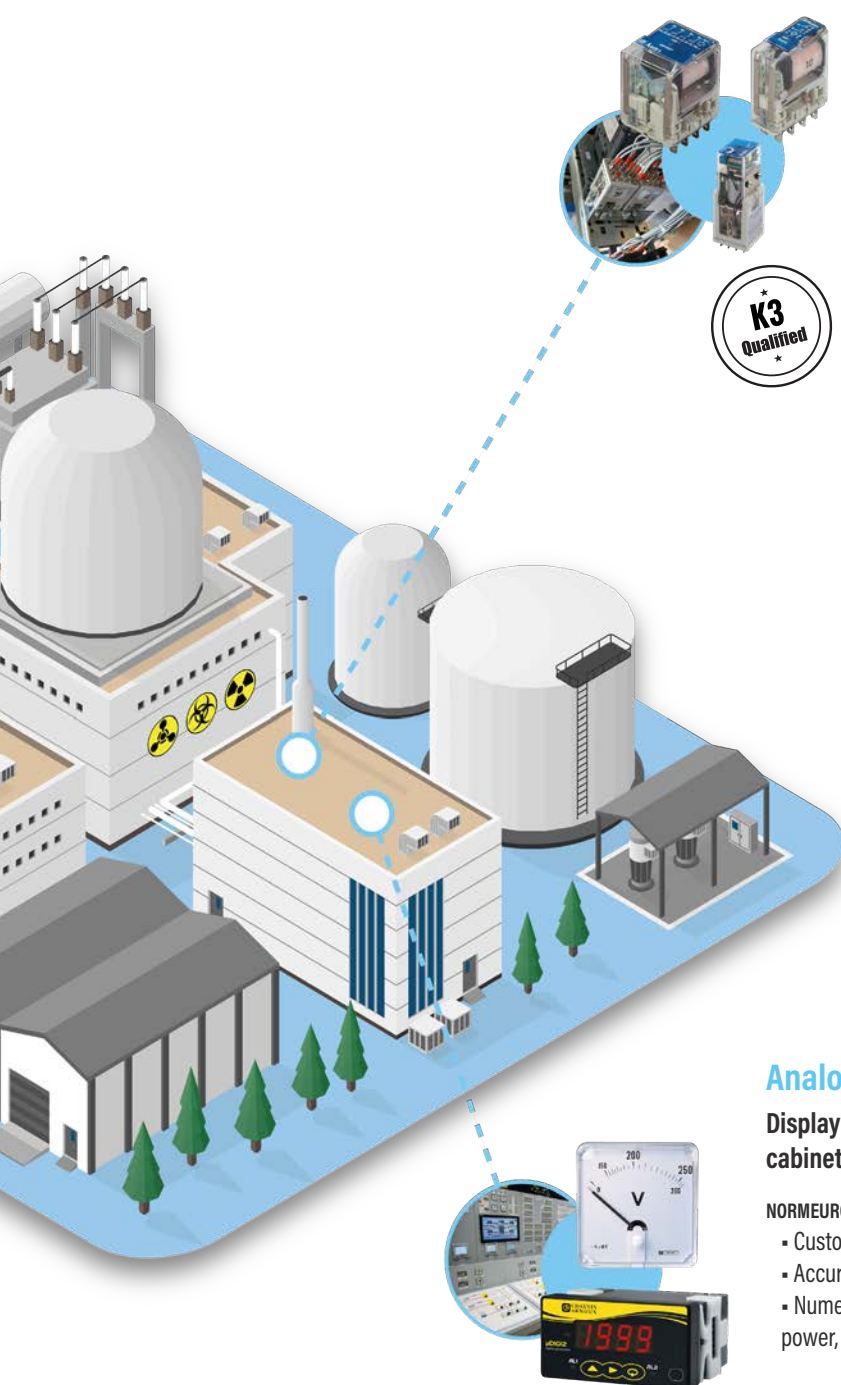
Our ability to reproduce legacy technologies in a context of evolving components and materials used in our products ensures the **quality and availability** of our equipment in a sustainable and consistent manner.

A recognized quality approach



The leading players in the **nuclear market** trust **CHAUVIN ARNOUX ENERGY** thanks to its commitment to:

- nuclear safety culture and the management of CFSI risks in accordance with ISO 19443
- product qualification, control of manufacturing processes, implementation of traceability, and management of documentation



Control Relays

Switching of Critical Loads RE3000 - OK-B 184 - TOK - POK

- Instantaneous and time-delay relay functions without programmable digital components
- High breaking capacity
- Long mechanical and electrical service life
- Wide selection of mounting bases

Analog and digital indicators

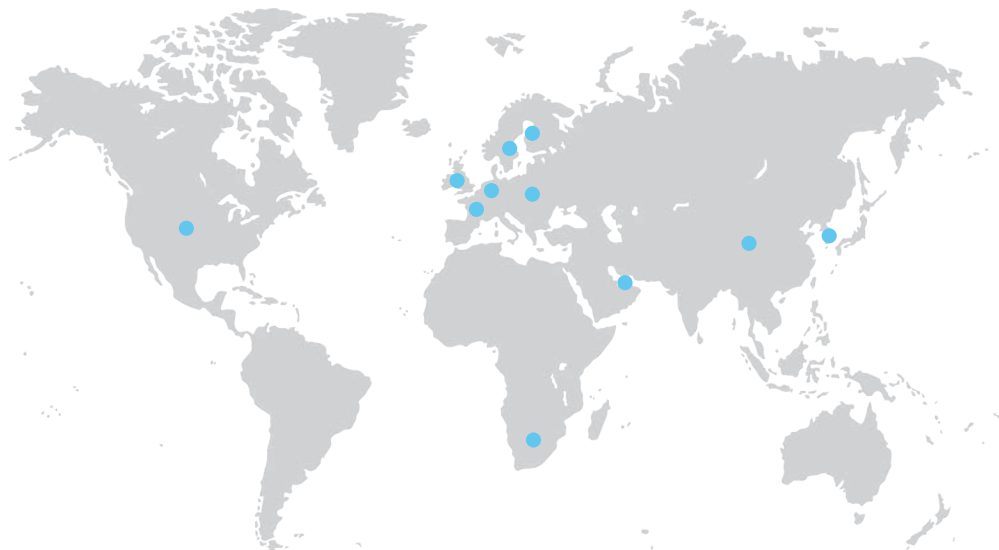
Display in the control room or on the front panel of an electrical cabinet NORMEUROPE - CA 2150 - MICRODIGIT

NORMEUROPE STANDARD

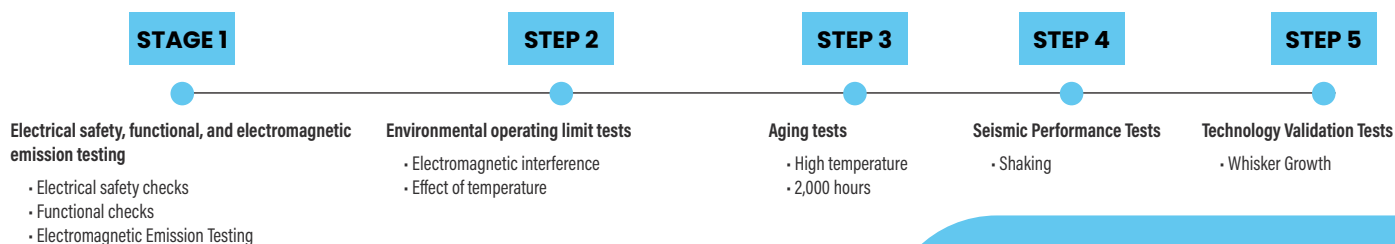
- Customizable: size, deviation, dial design, etc.
- Accuracy class 1.5 - **IEC 60051-1 standard**
- Numerous functions: AC or DC currents and voltages, active and reactive power, frequency,...

A long-standing international presence

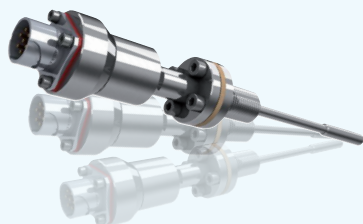
Our solutions have been in use since the 1970s, equipping the first generations of French nuclear power plants and, today, nuclear reactors of all origins around the world. This experience gained working with leading international manufacturers and operators makes Chauvin Arnoux Energy a trusted partner throughout the entire lifecycle of these facilities: construction, modernization, maintenance, and safety enhancement.



Check out the 5 stages of K3 qualification



Scan the QR code!



PYROCONTROLE has more than seventy years of expertise and primarily designs custom temperature sensors for cutting-edge industries such as the nuclear sector. At every strategic point in a facility—from the reactor building to the control room and auxiliary buildings—the probes designed by PYROCONTROLE are K1, K2, K3, and NC-qualified to withstand the most extreme conditions of radiation, seismic activity, high temperatures, and high pressures.

- Fast-response sensors
- Surface sensors
- Motor bearing or pump housing sensors
- Swimming pool sensors ...

FOCUS

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