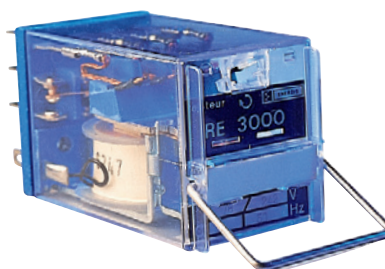


PRODUCTS FOR NUCLEAR ENVIRONMENTS



Totally analog

Guaranteed for extreme conditions

K3-qualified

Made in France

Measure up





A French brand

Enerdis, a French company in the Chauvin Arnoux Group, meets the specific needs of the nuclear sector by providing its expertise built up over the last thirty years. Our teams handle every aspect of our product manufacturing, from design through to final inspection of the equipment. Experienced and qualified, they guarantee quality, reliability and long-term support.

A long-term offering

Total mastery of our industrial know-how in our factories in France and our ability to match the market trends in terms of the components and materials used in our instruments enable us to guarantee constant product quality and availability over the long term.



An acknowledged quality approach



The major players on the nuclear market (EDF, Tractebel, Alstom, etc.) have all demonstrated their trust in ENERDIS due to its rigorous commitment to:

- qualification and training of its teams
- control of its manufacturing processes
- structured documentation

International presence

As a member of the Chauvin Arnoux Group, Enerdis benefits from a worldwide presence through its network of ten subsidiaries and expert partners in the major countries. Sales and technical teams in China ensure highly responsive coverage across the Asian continent. The Chauvin Arnoux Group has been present in China's nuclear plants for many years and is continuing with its partnerships to meet the requirements of the vast Chinese nuclear energy development program.



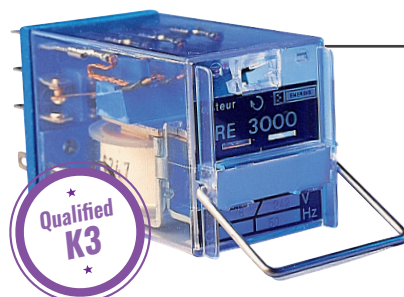
AUXILIARY RELAYS



HIGH BREAK CAPACITY



VERY LONG MECHANICAL AND ELECTRICAL LIFE SPAN



INSTANTANEOUS

- 4 x 10 A changeover switches
- Non-current-carrying contact test function
- Freewheel diode available as an option



OK B184

- 4 x 10 A changeover contacts
- Built-in magnetic blowout
- Break capacity adapted to inductive loads



TIME-DELAY

TOK

- 4 x 10 A changeover switches
- Electronics without programmable digital components
- Adjustable time-delay of 1, 2, 4, 8, 16, 32 or 64 second(s) or minute(s)

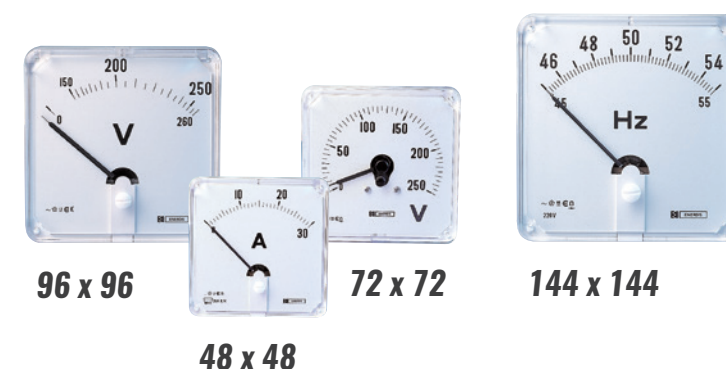
NORMEUROPE ANALOG PANEL METERS



CUSTOMIZABLE PANEL METERS (DIALS, SCALE, DEFLECTION, ETC.)



REINFORCED PROTECTION: IP55 - IK08



- Accuracy class 1.5
- Small-diameter housing for multiple connection possibilities

Available functions



ANALOG TRANSDUCERS T82N



TOTALLY CONFIGURABLE ON REQUEST



EXTENDED TEMPERATURE WITHSTAND

UAR 1210B RMS AC voltage



IAR 1210B RMS AC current



PAR 1232B Active power



QAR 1232B Reactive power



- Linear transfer curve
- Accuracy class 0.5
- Direct input or via CT
- 2 mounting modes: fixed or plug-in
- IP 20, tropicalization available as an option

T82N SPECIFICATIONS

Model	UAR 1210 B	IAR1210 B
Measurement input		
Un Voltage	100/√3 to 380 VAC	•
In Current	•	0.5 – 0.6 – 1 – 1.2 – 1.3 – 1.5 – 2.5 – 5 – 6 – 6.5 – 7 – 7.5 – 10
Analog output		
Current	0...Ymax	0/1 mA - 0/2.5 mA - 0/5 mA - 0/10 mA - 0/20 mA
	Ymin...Ymax	1/5 mA - 2/10 mA - 4/20 mA
Voltage	0...Ymax	0/1 V - 0/5 V - 0/10 V
	Ymin...Ymax	1/5 V - 2/10 V
Auxiliary power supply		
AC	100/√3 to 440 VAC	
DC	24, 48, 110, 125 VDC	

Model	QAR 1232 B	PAR1232 B
Network / Connection		
TE 3 wires		•
TNE 3/4 wires	•	•
Measurement input		
Un Voltage Ph - N	57.73 – 63.51 – 66.40 – 230 V	
Un Voltage Ph - Ph	100 – 110 – 115 – 120 – 127 – 230 – 240 – 380 – 400 V	
Analog output		
Current	0...Ymax	0/1 mA - 0/2.5 mA - 0/5 mA - 0/10 mA - 0/20 mA
	Ymin...Ymax	1/5 mA - 2/10 mA - 4/20 mA
Voltage	0...Ymax	0/1 V - 0/5 V - 0/10 V
	Ymin...Ymax	1/5 V - 2/10 V
Auxiliary power supply		
AC	100/√3 to 440 VAC	
DC	24, 48, 110, 125 VDC	

To order your
standard relays

Reference	Model
RE3A4121	RE3000N 48 VDC
RE3A4125	RE3000N 125 VDC
RE3A4122	RE3000N 48 VDC with freewheel diode
P01456016	OK B184 48 VDC
P01456017	OK B184 125 VDC

FOCUS



PYRO®
CONTROLLE
CHAUVIN ARNOUX GROUP



Drawing on its expertise built up over more than seventy years, **PYROCONTROLLE** mainly designs tailored temperature sensors for cutting-edge industries such as the nuclear sector. At each strategic point in an installation, from the reactor building to the control room, including the auxiliary buildings, the sensors designed by **PYROCONTROLLE** are qualified as K1, K2, K3 or NC to withstand the most extreme conditions in terms of irradiation, earthquake, high temperatures and high pressures.

- Fast-response sensors
- Surface sensors
- Motor or pump bearing sensors
- Pool sensors, etc.

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