

PRODUCTS FOR NUCLEAR ENVIRONMENTS



K3-qualified

Made in France









A French brand

Chauvin Arnoux Energy, 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, Chauvin Arnoux Energy 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



INS

RE3000

→ 4 x 10

Non-co

Freew an opt

NORMEUROPE ANALOG PANEL METER



CUSTOMIZABLE PANEL METERS ALS, SCALE, DEFLECTION, ETC.)



REINFORCED PROTECTION: 1P5

ANALOG TRANSDUCERS

T82N





TOTALLY CONFIGURABLE ON REOUEST



EXTENDED TEMPERATURE WITHSTAND

HIGH BREAK CAPACITY

VERY LONG MECHANICAL AND ELECTRICAL LIFE SPAN

TANTANEOUS

N

A changeover switches

urrent-carrying contact ınction

heel diode available as



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)



96 x 96



48 x 48



144 x 144

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

Available functions

Aac Anc Vnc AAC

UAR 1210B

(DI-

5 - IK08

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

Model

T82N SPECIFICATIONS

UAR 1210 B

IAR1210 B	

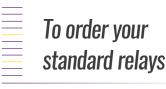
Model

		V			
Measurement input					
Un Voltage		100/v3 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	0Ymax	0/1 mA - 0/2.5 mA - 0/5 mA - 0/10 mA - 0/20 mA			
	YminYmax	1/5 mA - 2/10	mA - 4/20 mA		
Voltage :	0Ymax	0/1 V - 0/5	V - 0/10 V		
	YminYmax	1/5 V -	2/10 V		
Auxiliary power supply					
AC		100/√3 to 440 VAC			
DC		24, 48, 110, 125 VDC			

		<u> </u>		
	Ne	▼ twork / Connection	•	
TE 3 wire	S		•	
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	OYmax	0/1 mA - 0/2.5 mA - 0/5 mA - 0/10 mA - 0/20 mA		
	YminYmax	1/5 mA - 2/10 mA - 4/20 mA		
Voltage	0Ymax	0/1 V - 0/	5 V - 0/10 V	
	YminYmax	1/5 V - 2/10 V		
Auxiliary power supply				
AC	C 100/√3 to 440 VAC		o 440 VAC	
DC		24, 48, 110, 125 VDC		

QAR 1232 B

PAR1232 B



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



Drawing on its expertise built up over more than seventy years, **CA PYROCONTROLE** 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 CA **PYROCONTROLE** 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.

CA PYROCONTROLE

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