

ANALOG AND DIGITAL MEASURING TRANSDUCERS

A complete range covering all your measurement requirements

- Backed by 40 years' experience, designed and manufactured in France
- Communication with all systems (4-20mA, Modbus, IEC 61850, etc.)
- Product range suitable for harsh environments
- All the T82N models are K3-qualified



TRIAD 2









Electricity generation

Transducers accurately measure the electrical quantities at the output from the alternators of thermal, nuclear or hydro-electric power stations. They enable fine adjustment of the high active and reactive powers generated. Transducers also a play a key role in monitoring renewable energy generation installations between the power inverters and the connection to the grid.

Electricity transmission and distribution

Transducers are used in the transformer substations (e.g. 400 kV / 225 kV) to transmit to the dispatching center the electrical quantities (U, F, P, Q, etc.) needed to control electrical power transmission and distribution.



Electricity-intensive industries

Transducers are used to measure the electrical quantities (V, U, I, P, etc.) for control of the production facilities and/or specific monitoring of the power consumed by advanced industrial sites.

Chauvin Arnoux Energy has been building transducers since 1982 and has mastered all the phases from design through to manufacturing in its French factories There are more than 100,000 Chauvin Arnoux Energy transducers equipping power generation sites and substations in electricity distribution grids all over the world

100,000

Type of transducer

Analog

The advantage of totally analog instruments without programmable digital components for sensitive environments such as nuclear power plants

Digital

The advantage of digital instruments with the extensive flexibility for configuration and communication which they give the user. A rugged, proven product whose configuration is fixed when ordering

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Seismic tests on our T82N transducers: see for yourself their high resistance in harsh

environments, an essential step for K3 qualification!





Chauvin Arnoux Energy's transducers comply with the most demanding international reference standards, such as IEC 60688 and IEC 61000-6-5 (substation environment standard) A comprehensive transducers offering to cover all the measurement needs of your network or your site. Chauvin Arnoux Energy transducers can be delivered preconfigured to match your requirements.



To help you configure your transducer, please refer to the Chauvin Arnoux Energy General Catalog, which includes a configuration and order form.

Our offering

TRIAD 2 for advanced electrical *quantities*

- Accuracy class 0.1 as per IEC 60688
- Reinforced immunity for electrical substations (IEC 61000-4-5)
- Compatible with IEC 61850 via ELINK (communication gateway) and digital output available as an option (Ethernet / RS485)
- Configured when ordering or configurable using the **Triadjust 2 software**



- For single-phase and balanced three-phase networks
- 1 analog output



 For all electrical networks 4 analog outputs





For your IEC 61850 networks, don't forget to use your TRIAD 2 with the ELINK gateway

- Modernize your equipment's measurement protocol without calling into question your choice of a transducer
- Up to 20 transducers
- DNV.GL-certified



A tailored product configurable via your Triadjust application

With the TRIADJUST 2 software, you can quickly configure all the parameters of your TRIAD 2 as many times as you want.

- Configuration via optical head or Ethernet RS485
- Access to all the TRIAD 2 parameters

IAR 1210B

RMS AC current

UAR 1210B

RMS AC voltage

- Diagnosis of the installation
- Label printing on all types of laser printer

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T82N for harsh environments

- Linear transfer curve
- Accuracy class 0.5
- Direct input or on CT
- IP 20, tropicalization option
- Operating temperature: -10... + 60 °C
- 2 mounting modes: fixed or plug-in

- Mounting on DIN rail for fixed or plug-in unit

IEC 6068





PAR 1232B

Active power

QAR 1232B

Reactive power

REGREGOD	Model	Туре	Reference
	UAR 1210B	5	EMBB 4005
	IAR 1210B	4	EMBB 4004
	PAR 1232B	3	EMBB 4003
READERAL	QAR 1232B	3	EMBB 4003

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ADE

CE

FAR 1210B

Frequency

JAR 1211B Phase angle



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Socket



UNITED KINGDOM

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Use of T82 transducers with

NormEurope analog panel meters

Mounting on PDIN SYME trical DIN rail Mounting on PDIN ASYM etrical DIN rail