

CA 3420

Transducer temperature, resistance



New-generation transducer

- Supervision of point-of-load regulators
- Detection of sensor breakage
- Intuitive programming panel
- Usable in SIL2 installations

CA 3420

Transducer temperature, resistance

Mounted on a DIN rail, the **CA 3420 transducer** from **Chauvin Arnoux Energy** can be used to convert any input signals into a stable, standardized output signal. When used with the **CA 3401 programming panel**, it comprises a comprehensive solution which is both **effective** and **user-friendly**.

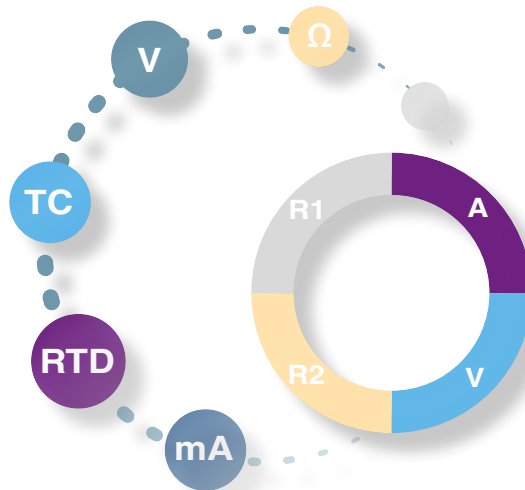


Multiples applications

With its advanced functions, the **CA 3420 transducer** offers **highly flexible use**, covering applications such as supervision of point-of-load regulators and temperature monitoring of the windings on transformers, alternators and motors.

Accepts all types of inputs

- Thermoresistance (RTD)
- Thermocouple (TC)
- Linear resistance (Ohm)
- Potentiometer
- mA
- V



Equipped with several outputs

- Current or voltage
- Two relays

- 2 wire **power supply** > 16 V
- **Universal 4-wire power supply**: AC or DC voltage
- **CA 3401 universal programming panel**, automatically recognizes the transducer and adapts the menu without any prior adjustments



LCD screen
Easy reading of information



Indicators

Green/red diagnostic LED indicating abnormal or incorrect transducer operation – yellow LED lights up for each active output relay



Reliability

The **CA 3420** offers numerous safety features to ensure that it remains very reliable and safe.

- **2.3 kVac triple galvanic insulation** between the input, the power supply and the output.
- **Advanced sensor error or breakage detection** with alarm by means of relays or the analogue output.
- Password **protection of programming functions** (CA 3401).

Safe operation

- Usable in **SIL 2*** installations
- Complies with the standards: NAMUR 21 (burst), NE 43* (sensor error), LVD.

*SIL – Safety Integrity Level

*NE 43 – Indicator of programmable sensor failure due to high or low-scale overshoot. Protection against polarity reversals.

CA 3401 | Programming panel

Smart, alphanumeric and multilingual

Mounted on the front of the CA 3420, this panel **combines several functions:**



Programming: it can be used to configure the transducer very simply without needing a manual or a PC, thanks to an intuitive drop-down menu. The interface texts are available in 7 languages : French, English, German, Spanish, Italian, Swedish and Danish.



Copy: as it is removable, it can be used for quick duplication of configurations between one transducer and another by simple transfer



Indicator: in fixed mode, the alphanumeric display allows you to check the values and the process status at a glance. **4 types of data are shown:** the input signal, the units, the analogue output or reference number and the communication and relay statuses.



High security: access to programming is password-protected.



Advanced functions: process calibration procedure, signal and relay simulation mode, diagnosis of errors.

● Technical specifications

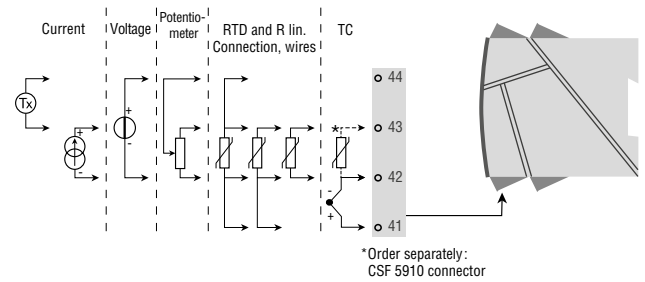
Inputs	
mA input	0/4...20 mA
V input	0/0.2...1 V ; 0/1...5 V ; 0/2...10 V
RTD	2, 3 and 4 wires Pt10...Pt100...Pt1000 Ni50...Ni1000 Cu10...Cu100
TC types	B, E, J, K, L, N, R, S, T, U, W3, W5, LR
Potentiometer	10 Ω...100 kΩ
Linear resistance	0 Ω...10 kΩ
Outputs	
2 relay outputs	250 V _{RMS} / 2 A
mA output	0/4...20 mA (max. 800 Ω / 16 V)
V output	0/0.2...1 ; 0/1...5 ; 0/2...10 Vdc
Mechanical data	
Power supply	21.6...250 Vac, 50...60 Hz or 19.2... 300 Vdc
Protection	IP20
Dimensions, without/with CA 3401 (H x L x W)	109 x 23.5 x 104/116 mm
Weight, without/with CA 3401	170 g / 185 g
Mounting	DIN rail
Approval(s) and certifications	CE / Standards: EN 61010-1, EN 61326-1 SIL
Environment	
Operating temperature	-20 °C to +60 °C
Relative humidity	< 95 % HR

● To order

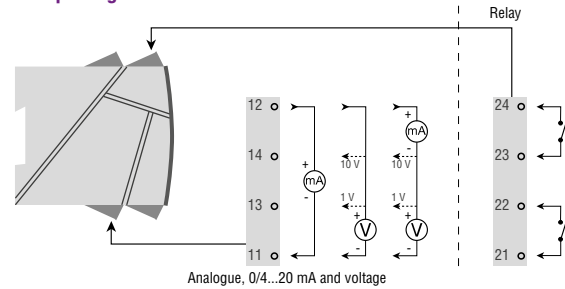
Model	Reference
CA 3420 + CA 3401	P01676020
Connector with compensated cold junction for thermocouple	P01672301

● Connection diagrams

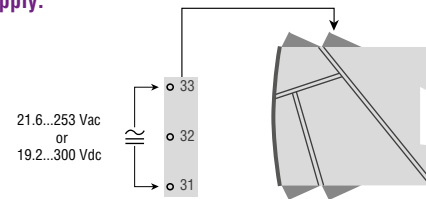
Input signals:



Output signals:



Power supply:



Associated products

Discover the other
Chauvin Arnoux Energy
transducer ranges.

Download the brochure from
www.chauvin-arnoux-energy.com



Discover the **Pyrocontrole**
temperature sensors.

Download the brochure from
www.pyrocontrole.com



FRANCE
Chauvin Arnoux Energy
16, rue Georges Besse
92182 ANTONY Cedex
Tél: +33 1 75 60 10 30
Fax: +33 1 46 66 62 54
info@enerdis.fr
www.chauvin-arnoux-energy.com

UNITED KINGDOM
Chauvin Arnoux Ltd
Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk
Dewsbury, West Yorkshire - WF12 7TH
Tel: +44 1924 460 494
Fax: +44 1924 455 328
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.com

MIDDLE EAST
Chauvin Arnoux Middle East
P.O. BOX 60-154
1241 2020 JAL EL DIB - LEBANON
Tel: +961 1 890 425
Fax: +961 1 890 424
camie@chauvin-arnoux.com
www.chauvin-arnoux.com

CHAUVIN
ARNOUX
ENERGY