

C.A 3420

Transducer temperature, resistance



New-generation transducer

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



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Transducer temperature, resistance

Mounted on a DIN rail, the **C.A 3420 transducer** from **Enerdis** can be used to convert any input signals into a stable, standardized output signal.

When used with the **C.A 3401 programming panel**, it comprises a comprehensive solution which is both **effective** and **user-friendly**.

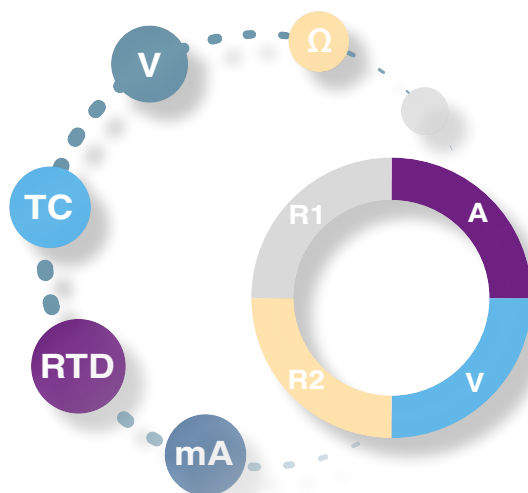


Multiples applications

With its advanced functions, the **C.A 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
- **C.A 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 **C.A 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** (C.A 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.

C.A 3401 | Programming panel

Smart, alphanumeric and multilingual

Mounted on the front of the C.A 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 V ; 0/1...5 V ; 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 C.A 3401 (H x L x W)	109 x 23.5 x 104/116 mm
Weight, without/with C.A 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
C.A 3420 + C.A 3401	P01676020
Connector with compensated cold junction for thermocouple	P01672301

Associated products

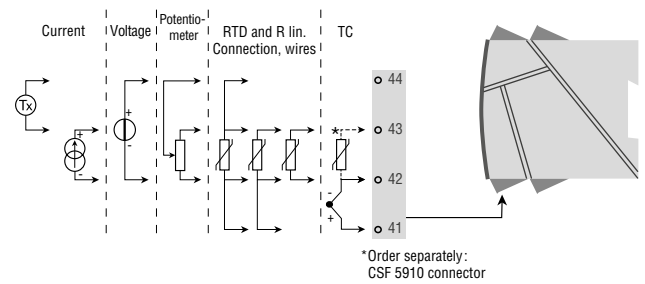
Discover the other **Enerdis®** transducer ranges.

Download the brochure from www.enerdis.com

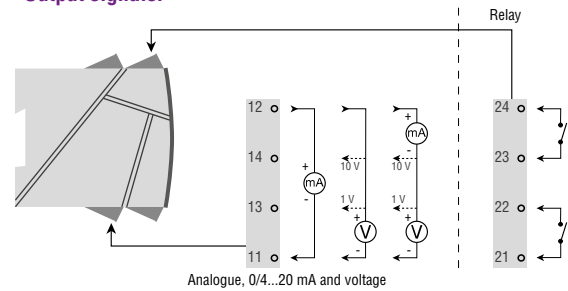


● Connection diagrams

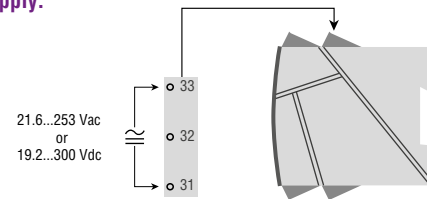
Input signals:



Output signals:



Power supply:



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