

C.A 3420

UNIVERSAL TRANSMITTER



New-generation transmitter: more open, more reliable and more user-friendly

Universal input: RTD, TC, Ohm, potentiometer, mA and V

2 or 4-wire power supply

Outputs: current or voltage, and 2 relays

C.A 3401 intuitive programming panel

User-friendly and simple to use



C.A 3420 | Universal Transmitter

Mounted on a DIN rail, the **C.A 3420 transmitter** from **Pyrocontrole** 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, economical solution which is both **effective** and **user-friendly**.

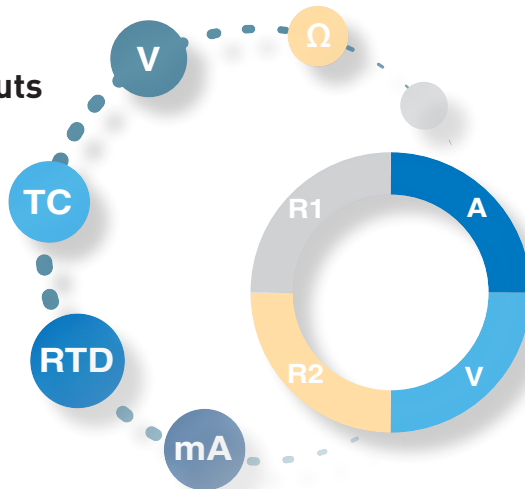


Universal solution for multiple applications

With its advanced functions, the **C.A 3420 transmitter** offers **highly flexible** use covering more than a hundred industrial applications.

► 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 transmitter and adapts the menu without any prior adjustments

Plug-in panel



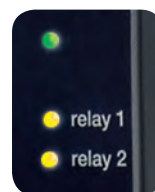
LCD screen

Easy reading of information



Indicators

Green/red diagnostic LED indicating abnormal or incorrect transmitter 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 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, plug-in, 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 transmitter 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 transmitter 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.



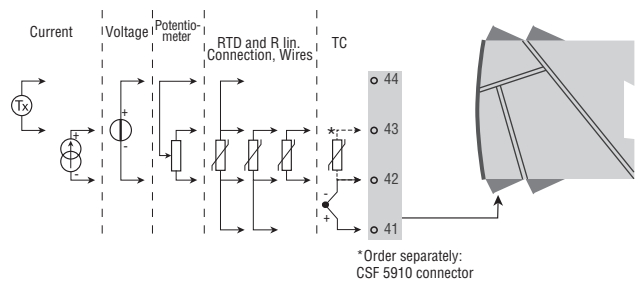
Advanced functions: process calibration procedure, signal and relay simulation mode, diagnosis of errors.

► Technical specifications

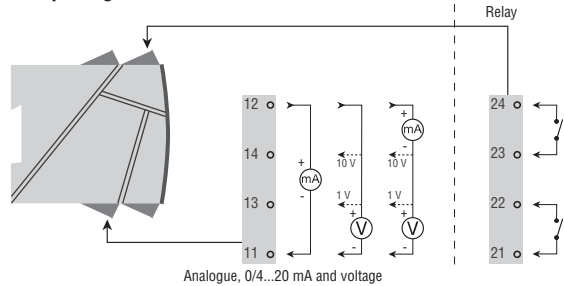
Input	
mA input	0/4...20 mA
V input	0/0.2...1 V; 0/1...5 V; 0/2...10 V
RTD	2, 3 and 4 wires Pt10...Pt100...Pt1000 Ni50...Ni1000 Cu10...Cu100
TC types	B, E, J, K, L, N, R, S, T, U, W3, W5, LR
Potentiometer	10 Ω...100 kΩ
Linear resistance	0 Ω...10 kΩ
Outputs	
2 relay outputs	250 V _{RMS} / 2 A
mA output	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, with/without C.A 3401 (H x L x W)	109 x 23.5 x 104/116 mm
Weight with/without 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

► Connection diagrams

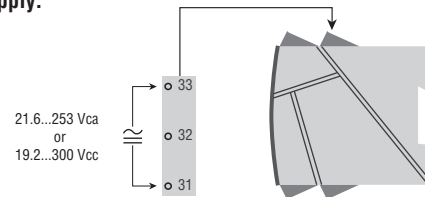
Input signals:



Output signals:



Power supply:



► To order

Model	Reference
C.A 3420 transmitter	P01676001
C.A 3401 programming panel	P01676010
Connector with compensated cold junction for thermocouple	P01672301

Configured at the factory

The C.A 3420 can be supplied preconfigured according to your requirements and delivered ready to use.

► Associated products

Pyrocontrolle temperature sensors



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