

Working temperature: from -10 to 60 °C (14 to 140 °F) for the built-in versions, from -20 to 60 °C (-4 to 140 °F) for the blind versions.

Working humidity: from 5 to 95% of relative humidity without condensate.

Pollution situation: 2.

Power supply: 12 VAC, 50 / 60 Hz, 20 VA max., supplied from a class 2 circuit in **c-pro 3 micro+**; 24 VAC, 50 / 60 Hz, 35 VA max. or 20... 30 VDC, 12 W max, supplied from a class 2 circuit in **c-pro 3 kilo+**.

Protect the power supply with a fuse rated 2A-T 250 V.

Overvoltage category: III.

Real time clock: incorporated (with SuperCap battery).

Real time clock data maintenance in absence of power supply: 3 days will battery fully charged.

Analog inputs: 9 analog inputs of which 6 configurable via configuration parameter for PTC / NTC / Pt 1000 probes / 0-20 mA / 4-20 mA / 0-5 V ratiometric / 0-10 V transducers and 3 configurable via configuration parameter for PTC / NTC / Pt 1000 probes.

Power supply 0-5 V ratiometric transducers: 5 VDC, 60 mA max.

Power supply 0-20 mA / 4-20 mA / 0-10 V transducers: 12 VDC, 120 mA max.

The sum of the maximum current powerable by the two power supply circuits is 120 mA.

Working range: from -50 to 150 °C (-58 to 302 °F) for PTC probe, from -50 to 120 °C (-58 to 248 °F) for NTC probe, from -100 to 400 °C (-148 to 752 °F) for Pt 1000 probe.

Digital inputs: 9 optoisolated digital inputs at 24 VAC / DC of which 7 at 50 / 60 Hz and 2 up to 2 KHz.

Resolution: 0.1 °C for PTC / NTC probes, 0.1 °C for Pt 1000 probes, 0.01 mA for 0-20 mA / 4-20 mA transducers, 0.01 V for 0-10 V transducers.

Analog outputs: 6 non optoisolated outputs:

- 2 outputs configurable via configuration parameter for PWM / 0-10 V signal

- 2 outputs configurable via configuration parameter for 0-20 mA / 4-20 mA / 0-10 V signal

- 2 outputs for 0-10 V signal.

Digital outputs: according to the model:

- 9 outputs (electromechanical relays) of which seven 3 res. A @ 250 VAC SPST outputs (K1... K7) and two 3 res. A @ 250 VAC SPDT outputs (K8 and K9)

- 9 outputs of which seven 3 res. A @ 250 VAC SPST electromechanical relays (K1... K7) and two 24 VAC/DC, 0.6 A max. solid state relays (K8 and K9)

- seven 3 res. A @ 250 VAC SPST outputs (electromechanical relays, K1... K7) and an unipolar stepper electronic expansion valves driver.

Unipolar stepper electronic expansion valves driver: 12 VDC, 260 mA max.

Type of actions and additional features: 1B.

Communication ports: 4 non optoisolated ports:

- 1 USB OTG port (for programming and debugging)

- 1 CAN port with CANbus communication protocol

- 2 RS-485 ports of which 1 with Modbus master communication protocol and 1 with Modbus slave communication protocol.

Program memory: 256 KB (FLASH memory).

Data memory: 4 KB (RAM memory).