

EV3400 series

Universal
controllers


Advanced Controllers



Controllers with universal input for temperature/humidity/pressure management

The controllers in the EV3400 series have an analogue input configured through a parameter for a wide range of probes, including temperature probes with a range of -99/+999 °C (PTC/NTC, PT1000, PT100, Ni120 and J/K thermocouples) and 0/4-20 mA or 0/2-10 V transducers to measure pressure, humidity, levels, weights, pH, etc..

The controllers can manage up to 2 independent regulations and an alarm, which are associated with the digital outputs available (from 1 to 3) and with an analogue 0-10 V/PWM output for modulating loads and external SSRs according to installation needs.

The versatility of the inputs and the highly configurable outputs make EV3400 the ideal product to meet the wide-ranging needs of the electrical distribution market.

Interfacing with the product is simplified by icons and capacitive keys. Advanced management of all the functions can be accomplished by equipping the controller with a module (EVlink) with Bluetooth BLE or Wi-Fi connectivity, which enables interaction from mobile devices through the EVconnect® app for Android and iOS or from the Internet through the EPoCA® cloud platform respectively.



Available with wide-range power supplies (12-24 VAC/DC or 115-230 VAC) or with a transformer (230 VAC)



Universal analogue input: PTC/NTC, PT1000, PT100, Ni120, J/K thermocouples, 0/4-20 mA or 0/2-10 V transducers



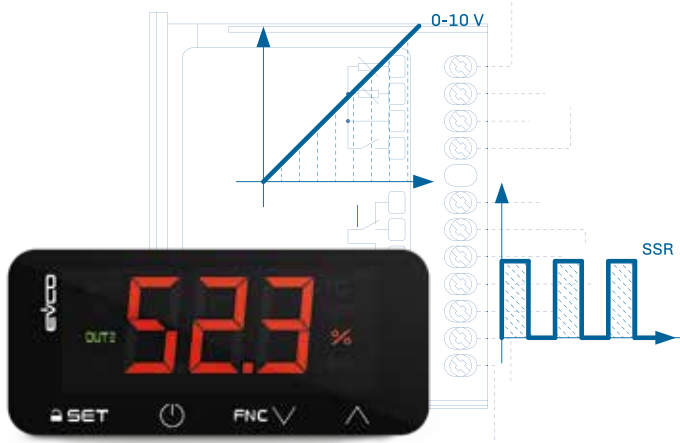
Up to 3 digital outputs and 1 analogue output



On-off/PID or PID with auto-tuning control

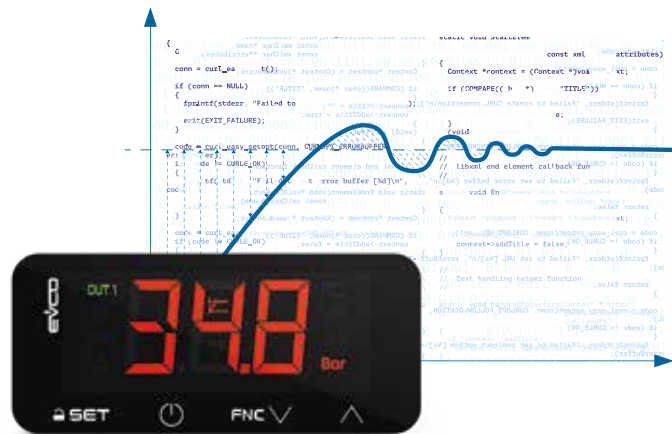


TTL MODBUS port for BMS or EVCO systems (EPoCA®, EVconnect®)



Versatile analogue output

- The output can be configured through a parameter either as 0-10 V to manage modulating loads or as PWM to manage external SSRs (I max 10 mA).
- It can be associated with one of the two available regulators or configured as an output proportional to the value detected by the analogue input.
- Available in models EV3411 (where it functions as an alternative to the digital output), EV3421, EV3412, EV3422 and EV3423.



PID precision control

- Control can be either ON-OFF or PID (with auto-tuning).
- The controller's regulation software contains the PID function which can be associated with regulator 1 or 2 (which, in turn, can be associated with the digital outputs or the analogue output).
- The EV3421, EV3422 and EV3423 models also have an auto-tuning function which automatically optimises the regulation parameters to give precision control and a response speed in line with the application.



EV3400P range

For applications requiring only management of the ON-OFF temperature within a range of -50 and 150°C, the EV3400 series has 2 "simplified" models with an analogue input for PTC/NTC probes only, 1 or 2 digital outputs and no analogue input: EV3401P and EV3402P.

Enter the IoT world with EVlink



EVlink is a plug-in module with an internal memory which connects to the controller's TTL port to transform it into a device with Bluetooth BLE (module EVIF25TBX) or Wi-Fi (module EVIF25TWX) connectivity.

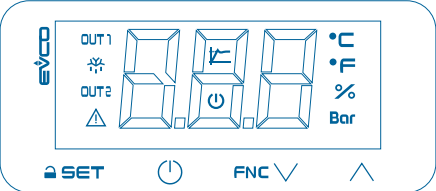
BLE connectivity allows users to establish a local connection with their smartphone or tablet where they can download the EVconnect® app free of charge for secure access to the configuration and monitoring functions (parameters, setpoints, readings, status, etc.). Data can also be displayed on a graph and exported into CSV format.

Wi-Fi connectivity, on the other hand, allows several hierarchically enabled users to connect to the EPoCA® system through the Internet to remotely manage and monitor the system.

As well as featuring all the EVconnect® functions, EPoCA® can also send alerts to selected email addresses and download data in XLSX and PDF format.

Display

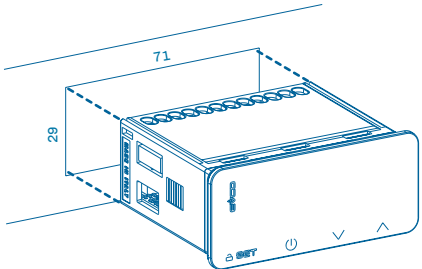
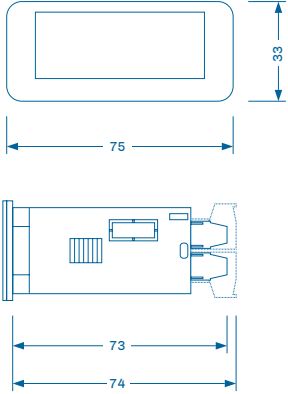
The user interface has 4 capacitive keys and a LED display which shows 3 digits with the decimal point, the sign and icons which make it easy to read the values and operating status.



- OUT1** / **OUT2** Management of 2 regulators
- ~** Analogue
- ▲** Alarms
- C•F** Temperature in Celsius or Fahrenheit
- %** Humidity percentage
- Bar** Pressure
- ⏻** Stand-by mode

Measurements and installation

The controllers come in the standard 74 x 32 mm format with IP65 front protection. They are built into the panel with snap-in brackets.



	EV3															
	401 P3	401 P7	401 M3	401 M7	411 M3	411 M7	402 P3	402 P7	421 M3	421 M9	412 M3	412 M9	422 M3	422 M9	423 M3	423 M9
	1 REGULATION OUTPUT						2 REGULATION OUTPUTS									
POWER SUPPLY																
12... 24 VAC/DC	•		•		•		•		•		•		•		•	
115... 230 VAC									•		•		•		•	
230 VAC		•		•		•		•								
ANALOGUE INPUTS																
Regulation probe (PTC/NTC)	•	•					•	•								
Multi-sensor probe (PTC/NTC/J/K/Pt 100/Pt 1000/ Ni 120/0-20 mA/4-20 mA/0-10 V/2-10 V)			•	•	•	•			•	•	•	•	•	•	•	•
ANALOGUE OUTPUTS																
Analogue output (0-10 V/PWM)					•	•			•	•	•	•	•	•	•	•
DIGITAL OUTPUTS (ELECTRO-MECHANICAL RELAYS)																
Load 1 (configurable)	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A
Load 2 (configurable)							8 A	8 A			8 A	8 A	8 A	8 A	8 A	8 A
Alarm (configurable)															8 A	8 A
OTHER FEATURES																
On-off/PID control					•	•			•	•	•	•	•	•	•	•
PID control with auto-tuning									•	•			•	•	•	•
Management via app EVconnect® with BLE Bluetooth interface (EVlink BLE)					•	•			•	•	•	•	•	•	•	•
Management via the EPoCA® platform using the Wi-Fi (EVlink Wi-Fi) interface					•	•			•	•	•	•	•	•	•	•

All models are available with red display, fixed screw terminal blocks, multifunction digital input (not available if the input analog is configured for Pt 100 / Pt 1000 / Ni 120 3 wires), TTL MODBUS port and alarm buzzer.

Available on demand



EVJKEY
Programming key



EV3KEY
Programming key



EVIF25TBX
EVlink BLE module



EVIF22TSX
TTL/RS-485 serial interface



EVIF25TWX
EVlink Wi-Fi TTL module



EVTP
Temperature probes for industrial environments



EVHP
Humidity and temperature transducers for industrial environments



0025100010
Drip protector

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