When conservation matters

EVCO
Advanced Controllers

Just focus on the important things

Refrigerated storage and transport

In the refrigeration of laboratory items such as vaccines, blood, biological samples or medicines, it is of key importance that the cold chain is preserved throughout all steps (production, transport, storage and display) to prevent from spoilage and to inhibit the development of micro-organism. The technological solutions developed by EVCO ensure constant temperature levels, emergency management and data logging even in the event of power failures. The spectrum of EVCO products on offer covers the requirements of units such as cold rooms, cabinets and displays. It also includes low-voltage power-supply solutions for the refrigerated transport.

Index

Vcolor 279

Secure access

Access to controller functions is hierarchically subject to user identification to increase the level of protection.

User experience

Featuring intuitive navigation with real-time trend graphs, the controller's innovative programmable platform allows the user to personalise the graphic skin and add new machine interface languages.

Strategies for power failures

The controller interacts with a backup module with auxiliary probe, ensuring that temperature readings are always recorded in the built-in data-logger, even in the event of a power failure.

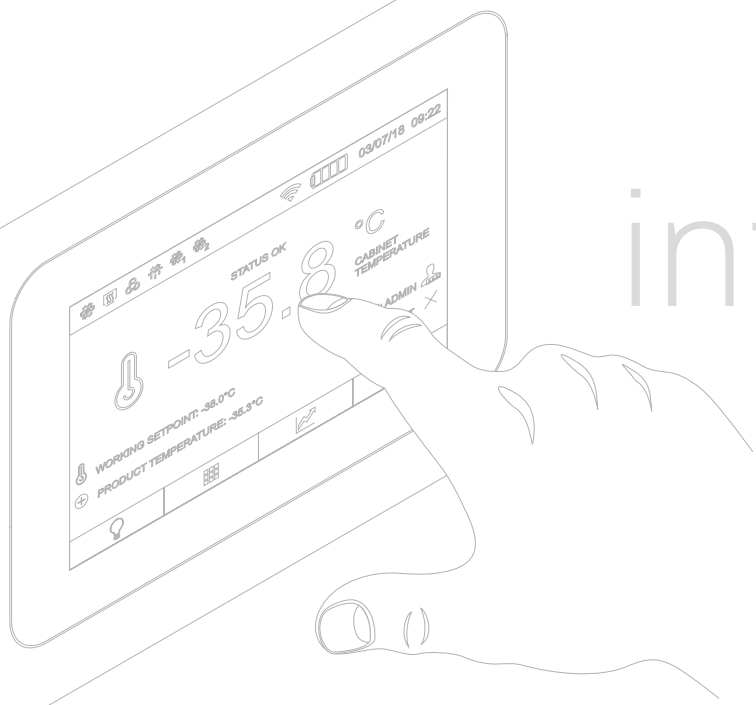
Control flexibility

The controller has 9 sealed relays (which can be expanded to 13 through an I/O expansion module)) to meet the most sophisticated needs in the refrigeration control. The relays are also fit for plants using hydrocarbons (R290), in compliance with the standard EN 60079-15.

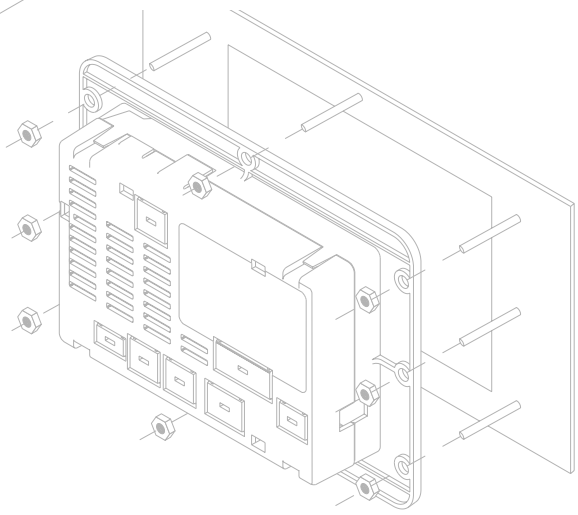
On-site and remote monitoring

Date can be downloaded on a common flash drive via USB port. Alternatively, controllers can be equipped with a Bluetooth module (EVlink BLE) or a Wi-Fi connectivity (EVlink Wi-Fi), enabling interaction with the service and data check from mobile devices through the EVconnect app for Android and iOS or from the Internet through the EPoCA cloud platform (with automatic email alerts) respectively.

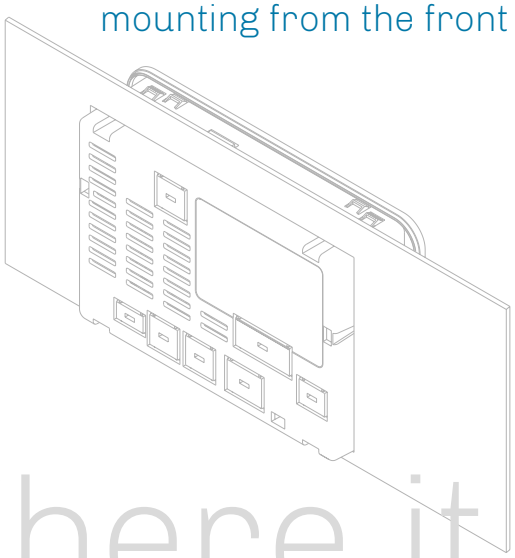
User interface



- 5" or 7" format
- Glass touch screen
- TFT graphic display
- 65K colours
- 800x480 pixel resolution
- IP65 front protection



Flush-fit mounting or recessed mounting from the front



Where it is used

Refrigerated storage at temperatures as low as -99°C

EVJ 200 Lab

Highly configurable

EVJ 200 Lab is a control solution with low-voltage supply and 6 fully configurable digital outputs, designed to meet the various needs of storing and transporting laboratory material at temperatures as low as -99°C.

Strategies for power failures

The controller interacts with a backup module (EVPS9B) which serves as a battery charger and ensures that temperatures are detected even in the event of a power failure. HACCP data recording is made possible under all circumstances by using an EVlink BLE module or an EVlink Wi-Fi module.

Environmentally friendly

The controllers have energy saving strategies such as the adaptive defrost and can be supplied in a version compliant with the standard EN 60079-15 for equipment using hydrocarbons (R290).

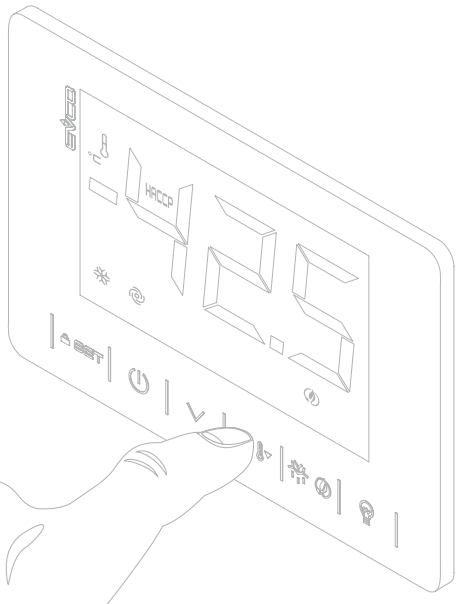
On-site and remote monitoring

The Bluetooth connectivity (EVlink BLE) and the Wi-Fi connectivity (EVlink Wi-Fi) enable interaction with the service and data check from mobile devices through the EVconnect app for Android and iOS or from the Internet through the EPoCA cloud platform (with automatic email alerts) respectively.

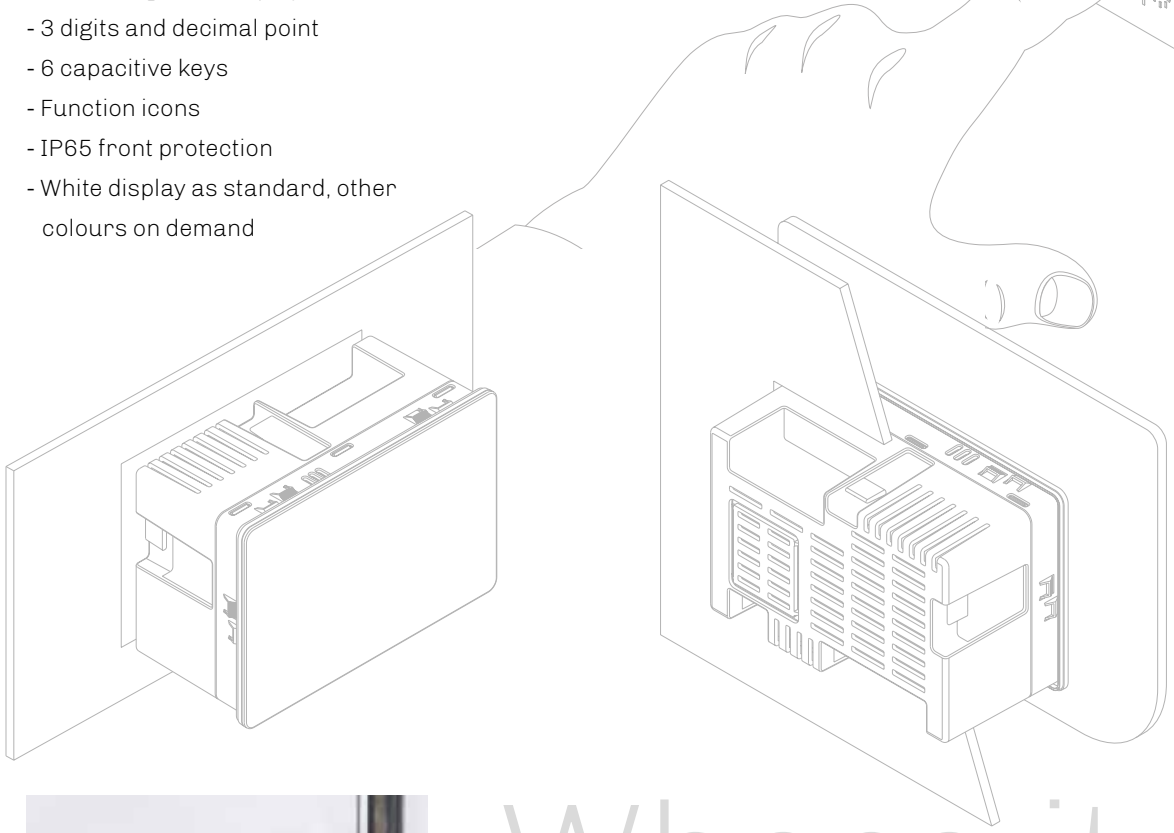
Design and functionality

The controller has a built-in user interface with a large, extra-bright display, 6 capacitive touch keys and IP65 frontal protection. The display can show the highest and lowest cabinet temperature values recorded in the last 24 hours.

User interface



- 111,4 x 76,4 mm format
- 1-row large LED display
- 3 digits and decimal point
- 6 capacitive keys
- Function icons
- IP65 front protection
- White display as standard, other colours on demand



Where it is used

Refrigerated transport and storage at temperatures as low as -99°C

EV3200 Lab

Refrigerated transport

Available with 12-24 VAC/DC power supply, the controllers are also fit to manage refrigerated units for continuous use in vehicles.

Strategies for power failures

The controller interacts with a backup module (EVPS9B) which serves as a battery charger and ensures that temperatures are detected even in the event of a power failure. HACCP data recording is made possible under all circumstances by using an EVlink BLE module or an EVlink Wi-Fi module.

Environmentally friendly

The controllers have energy saving strategies such as the adaptive defrost and can be supplied in a version compliant with the standard EN 60079-15 for equipment using hydrocarbons (R290).

On-site and remote monitoring

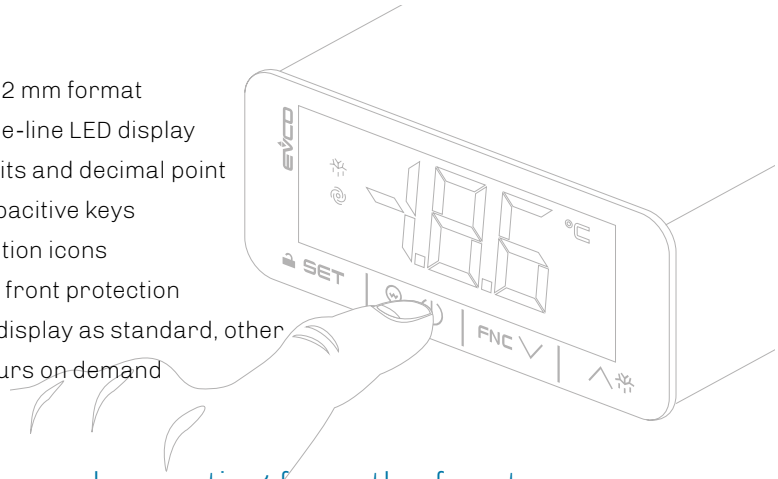
The Bluetooth connectivity (EVlink BLE) and the Wi connectivity (EVlink Wi-Fi) enable interaction with t service and data check from mobile devices through the EVconnect app for Android and iOS or from the Internet through the EPoCA cloud platform (with automatic email alerts) respectively.

Setting multiple devices quickly

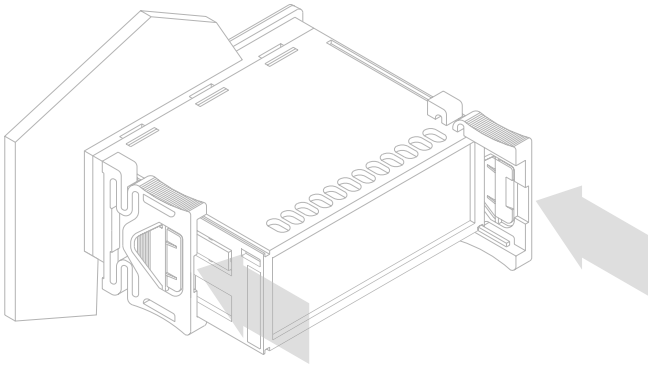
The specific EV3KEY flash drive makes possible parameter configuration upload and download, resulting in an easier and quicker setting of multiple devices.

User interface

- 74x32 mm format
- Single-line LED display
- 3 digits and decimal point
- 4 capacitive keys
- Function icons
- IP65 front protection
- Red display as standard, other colours on demand



Recessed mounting from the front



Fixed screw terminal blocks as standard.
Plug-in screw terminal blocks available on request.

Where it is used

Refrigerated transport and storage at temperatures as low as -99°C

EVX200 Lab

Strategies for power failures

The controller interacts with a backup module (EVPS9B) with battery charging functions. In the event of a power failure, the backup module provides emergency power to the alarm module with auxiliary probe management and to the data logger module, which are interconnected in a serial RS-485 communication.

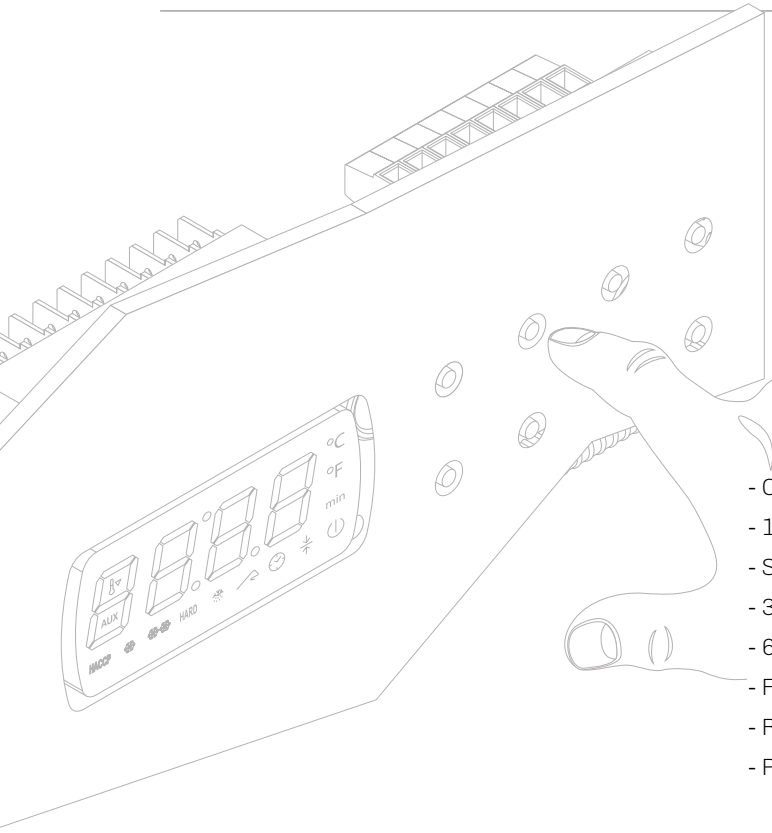
Easy access to data

The backup system ensures that temperature and event data are always recorded on the data logger module, which is equipped with an USB port for convenient history exportation via a common USB flash drive.

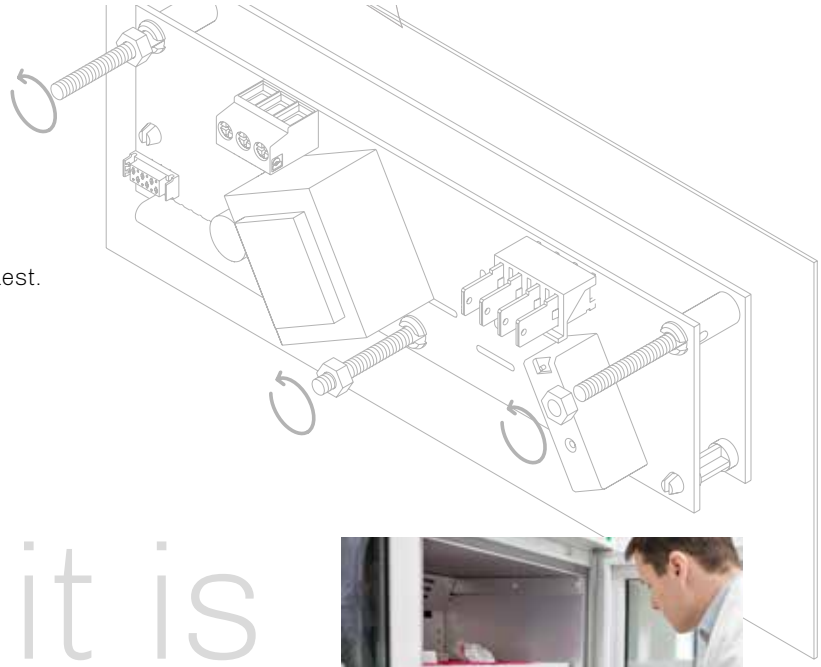
Setting multiple devices quickly

The specific EVKEY flash drive makes possible parameter configuration upload and download, resulting in an easier and quicker setting of multiple devices.

User interface



- Open-board user interface
- 156x45 mm horizontal format
- Single-line LED display
- 3 digits and decimal point
- 6 keys
- Function icons
- Reduced depth (models with remote user interface)
- Polyester overlay available on demand or made by the client



Flush-fit mounting with polyester overlay

Fixed screw terminal blocks as standard.
Plug-in screw terminal blocks available on request.

Where it is used

Refrigerated storage at temperatures as low as -40°C

EVBOX1 Datalogging

Flexible control

Equipped with up to 6 relay outputs, the panels can regulate with great flexibility the most varied configurations in use in single-phase cold rooms. Two relays, rated load 30 A @ 250 VAC, make it possible to directly control high-power compressors and the evaporator fan.

Compliance with the EN12830

The control panel has a clock and a data-logging extension on an SD card with built-in battery for data recording, even in the event of a power failure.

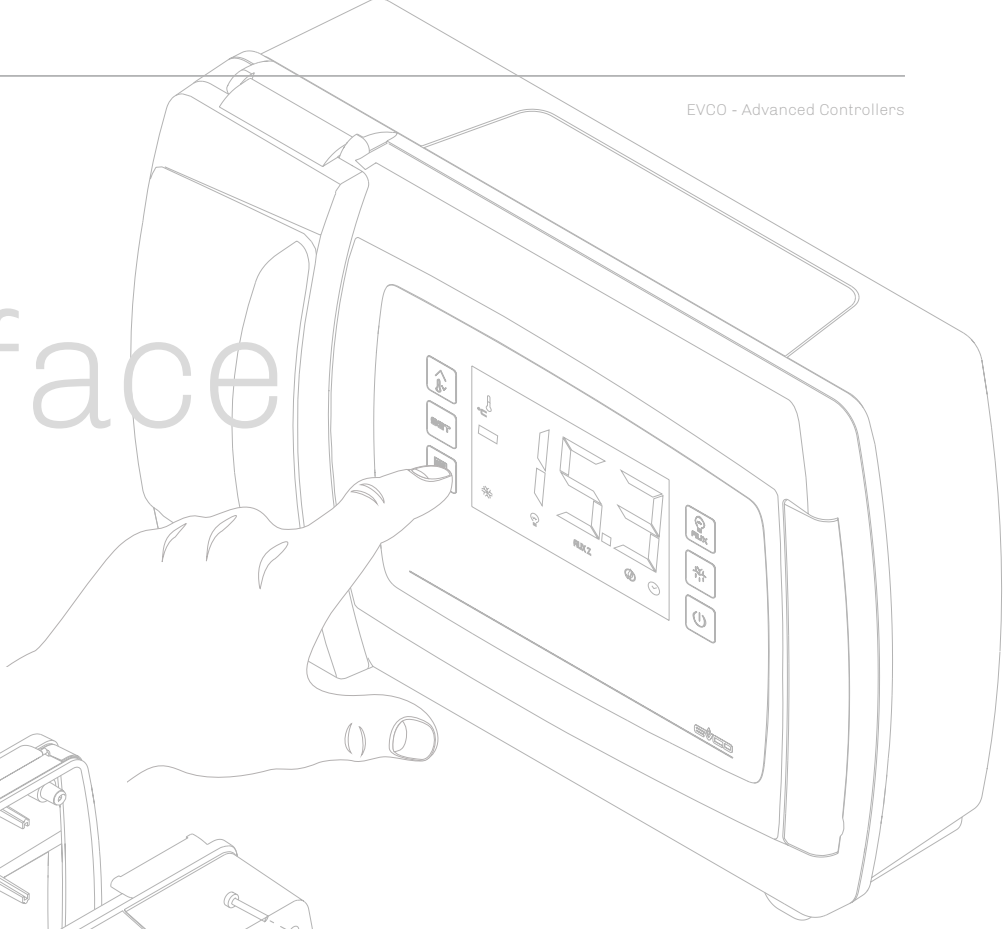
Safety

Some models have a thermal-magnetic circuit breaker to ensure protection against overloads.

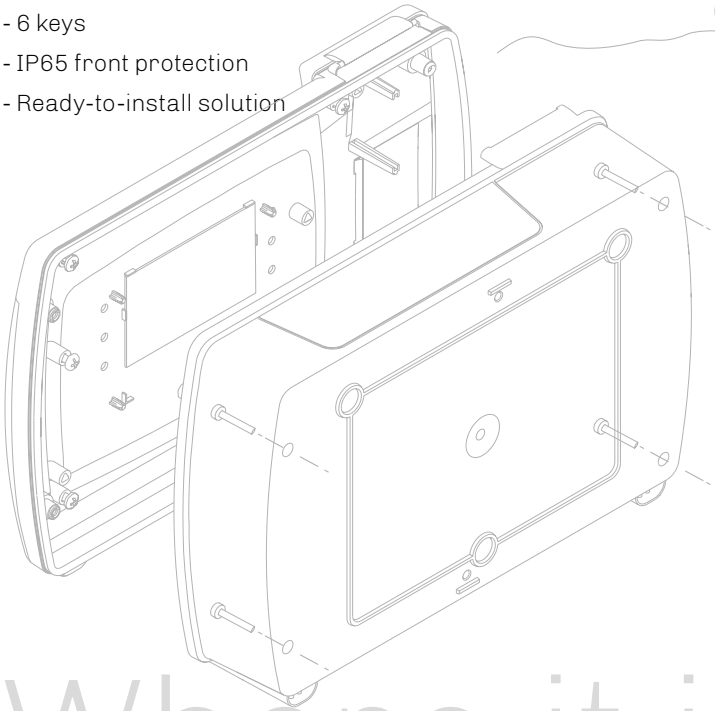
Regulating with greater precision

To achieve better control accuracy, a model is available with built-in driver for managing unipolar stepper-type electronic expansion valves.

User interface



- Single-262x179 mm format
- Built-in controller
- Single-line LED display
- 4 digits and decimal point
- Function icons
- 6 keys
- IP65 front protection
- Ready-to-install solution



Wall-mounted with fixing screws and plugs

Where it is used

Refrigerated storage in cold rooms at temperatures as low as -99°C

Vcolor 279

www.evco.it/
en/16333-vcolor-279

EV3200 Lab

www.evco.it/
en/16378-ev3-200-lab

EVX200 Lab

www.evco.it/
en/16380-evx-200-lab

EVB01 Datalogging

www.evco.it/
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