Advanced Controllers

Controllers for food equipment

EV3 143

Частное предприятие "Юдилен-Холод" || +375296803378 || https://купизапчасть.бел || Минская обл., Минский р-н, Щомыслицкий с/с, 92/4

EV3 143

PATENTED

Controller for 2 independent temperature regulations, for milk refrigeration or for ice-cream processing

Controller for 2 independent temperature regulations, for milk refrigeration or for ice-cream processing

EV3 143 is a versatile controller, in a compact 74x32 format with LED display and capacitive touch keys, suited to be used in several different applications simply by setting one parameter.

In the first of the 3 possible configurations, the controller can manage 2 temperature regulations independently, each with a setpoint adjustable in hot or cold mode (range -40°C to 110°C), thus proving to be fit for applications requiring foodstuff to be maintained at different temperatures (for examples buffet tables and lines).

The second configuration has been developed to manage milk refrigeration tanks, where milk preservation after milking at a temperature of 4 °C combines with the use of a stirrer that helps cooling in a fast and homogenous way all the tank content.

Lastly, the controller can also be configured for ice-cream blast freezer management, thanks to a special algorithm that makes it possible to perform a cascade cycle in 4-phases: heating, cooking, cooling and conservation.

Users can interact remotely with their equipment using the EPoCA® cloud platform with Wi-Fi or Ethernet connectivity (which also enables alternative or parallel control through MODBUS TCP). Onsite, they can interact from a mobile device with the EVconnect® app which uses Bluetooth Low Energy connectivity. For more details, compare all the connectivity options in the Technical Data table and consult the sections of our website: Products/ Management and Monitoring Systems and Products/ Connectivity Devices.

EV3 143 is a versatile controller, in a compact 74x32 format with LED display and capacitive touch keys, suited to be used in several different applications simply by setting one parameter.

In the first of the 3 possible configurations, the controller can manage 2 temperature regulations independently, each with a setpoint adjustable in hot or cold mode (range -40°C to 110°C), thus proving to be fit for applications requiring foodstuff to be maintained at different temperatures (for examples buffet tables and lines).

The second configuration has been developed to manage milk refrigeration tanks, where milk preservation after milking at a temperature of 4 °C combines with the use of a stirrer that helps cooling in a fast and homogenous way all the tank content.

Lastly, the controller can also be configured for ice-cream blast freezer management, thanks to a special algorithm that makes it possible to perform a cascade cycle in 4-phases: heating, cooking, cooling and conservation.

Users can interact remotely with their equipment using the EPoCA® cloud platform with Wi-Fi or Ethernet connectivity (which also enables alternative or parallel control through MODBUS TCP). Onsite, they can interact from a mobile device with the EVconnect® app which uses Bluetooth Low Energy connectivity. For more details, compare all the connectivity options in the Technical Data table and consult the sections of our website: Products/ Management and Monitoring Systems and Products/ Connectivity Devices.

TOP PLUS

Flexibility of use in many applications

Flexibility of use in many applications

Advantages | Преимущества

It can be configured for 2 independent regulations

It can be configured for 2 independent regulations

It can be configured for milk refrigeration tanks

It can be configured for milk refrigeration tanks

It can be configured for ice-cream batch freezers

It can be configured for ice-cream batch freezers

Interaction with the unit from mobile devices through the EVconnect app or from the Internet through the EPoCA cloud platform

Взаимодействие с установкой через мобильные устройства посредством приложения EVconnect или через Интернет посредством облачной платформы EPoCA

Main features | Основные характеристики

TTL MODBUS communication port

порт связи TTL MODBUS

Quick programming with EV3KEY flash-drive

Быстрое программирование с ключом EV3KEY

Format 74 x 32 mm

Формат 74 x 32 мм

4 capacitive touch keys

4 емкостных кнопок

IP65 front protection

С фронтальной степенью защиты IP65

Where | Где

1 Buffet tables and lines

Buffet tables and lines

2 Ice-cream and pastry-making machines

Ice-cream and pastry-making machines

3 Milk refrigeration tanks

Milk refrigeration tanks

Accessories | Дополнительное оборудование

Programming key
Ключ программирования

EV3KEY

Makes possible configuration upload and download.

Позволяет загружать и скачивать параметры конфигурации контроллера.

Programming tool
Инструмент программирования

EV3PT

Makes it possible to connect to the Parameters Manager setup software system. The USB 0810500023 connecting cable must also be used.

Для подключения к системе настройки в программном обеспечении Parameters Manager (Менеджер параметров). Es necesario utilizar también el cable de conexión USB 0810500023.

Non-optoisolated TTL/RS-485 serial interface
Последовательный интерфейс TTL/RS-485 без оптоизоляции

EVIF24TSX

Enables connection to a RS-485 network.

Позволяет подключиться к сети RS-485.

Serial interface EVlinking BLE
Серийный интерфейс EVlinking BLE

EVIF25TBX

Through the TTL communications port, it provides the controller with Bluetooth connectivity which enables wireless management from smartphones and tablets using the EVconnect app.

Посредством коммуникационного порта TTL добавляет к контроллеру технологию Bluetooth, которая позволяет удаленно управлять установкой с мобильных устройств посредством приложения EVconnect.

EVlinking Wi-Fi serial interface
Серийный интерфейс EVlinking Wi-Fi

EVIF25TWX

Through the TTL communications port, it provides the controller with Wi-Fi connectivity which enables remote management and monitoring from the Internet using the EPoCA cloud system.

Посредством коммуникационного порта TTL добавляет к контроллеру технологию Wi-Fi, которая позволяет выполнять удаленный мониторинг и контроль через Интернет посредством облачной системы EPoCA.

Connecting cable
Соединительный кабель

0810500023

Makes it possible to connect to a personal computer using a USB. Length: 1 m (3.28 ft).

Для подключения к ПК через USB-порт. Длина кабеля 1 м.

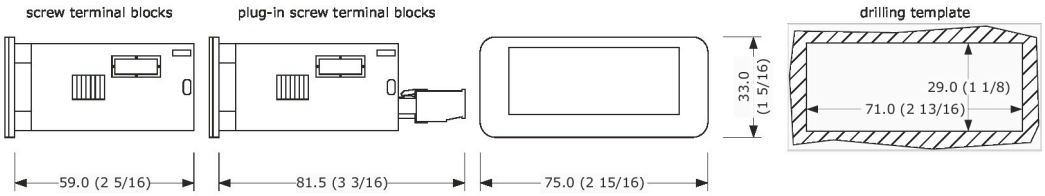
Drip protector
Защита от попадания влаги

0025100010

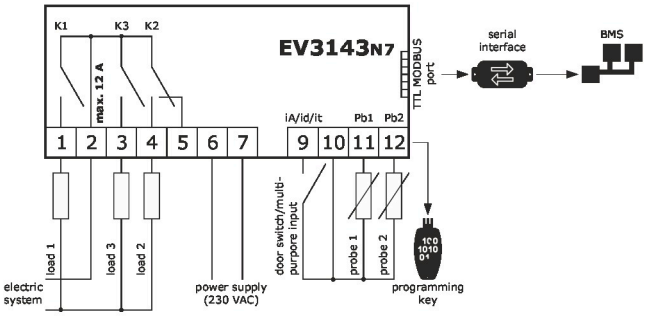
Guarantees protection from damage caused by drips.

Обеспечивает защиту от повреждений в результате попадания капель воды.

Dimensions mm (in) | Размеры mm



Wiring diagram | Электрическая схема



Technical features | Технические характеристики

Controller for 2 independent temperature regulations, for milk refrigeration or for ice-cream processing

Controller for 2 independent temperature regulations, for milk refrigeration or for ice□cream processing

	EV3143N7
FORMAT | формат	
74 x 32 mm | 74 x 32 мм	•
DISPLAY | ДИСПЛЕЙ	
Single-line LED display, 4 capacitive touch keys | LED-дисплей однострочный	•
CONNECTIONS | ПОДКЛЮЧЕНИЯ	
Fixed screw terminal blocks | Клеммные колодки с винтовым креплением	•
POWER SUPPLY | ПИТАНИЕ	
230 VAC | 230 VAC	•
ANALOGUE INPUTS | АНАЛОГОВЫЕ ВХОДЫ	
Probe 1 (PTC/NTC) | Датчик 1 (PTC/NTC)	•
Probe 2 (PTC/NTC) | Датчик 2 (PTC/NTC)	•
DIGITAL INPUTS | ЦИФРОВЫЕ ВХОДЫ	
Door switch/multi-purpose | Микро-порт/многофункциональность	•
DIGITAL OUTPUTS (electro-mechanical relays; A res. @ 250 VAC) | ЦИФРОВЫЕ ВЫХОДЫ (электромеханические реле, A @ 250 VAC)	
Load 1 (configurable) | Нагрузка 1 (возможность конфигурации)	16 A
Load 2 (configurable) | Нагрузка 2 (возможность конфигурации)	8 A
Load 3 (configurable) | Нагрузка 3 (возможность конфигурации)	5 A
COMMUNICATIONS PORTS | КОММУНИКАЦИОННЫЕ ПОРТЫ	
MODBUS TTL | TTL MODBUS	•
CONNECTIVITY | CONNECTIVITY	
RS-485 MODBUS RTU (optional through the EVlinking RS-485 module) | RS-485 MODBUS RTU (optional through the EVlinking RS-485 module)	•
Bluetooth Low Energy for EVconnect app (optional through the EVlinking BLE module) | Bluetooth Low Energy for EVconnect app (optional through the EVlinking BLE module)	•
Wi-Fi EPoCA/MODBUS TCP (optional through the EVlinking Wi-Fi module with separate 12 Vac/15 Vdc power supply) | Wi-Fi EPoCA/MODBUS TCP (optional through the EVlinking Wi-Fi module with separate 12 Vac/15 Vdc power supply)	•
Ethernet EPoCA/MODBUS TCP (optional through the controller/gateway EV3 200 Web) | Ethernet EPoCA/MODBUS TCP (optional through the controller/gateway EV3 200 Web)	•
OTHER STANDARD FEATURES | ДРУГИЕ ХАРАКТЕРИСТИКИ (СТАНДАРТНАЯ КОМПЛЕКТАЦИЯ)	

	EV3143N7
Alarm buzzer | Звуковой сигнал тревоги	•
Operates with EV3KEY | Функционирование с EV3KEY	•
Cooling/heating function mode | Функции охлаждение/нагрев	•

Notes | Примечание

None | Нет

Available options | Имеющиеся дополнительные опции

None | Нет

EVCO Advanced Controllers

EVCO S.p.A. | Via Feltre 81, 32036 Sedico (BL) ITALY | **phone** +39 0437 8422 | **fax** +39 0437 83648 | **email** info@evco.it | **web** www.evco.it

Частное предприятие "Юдилен-Холод" || +375296803378 || https://купизапчасть.бел || Минская обл., Минский р-н, Щомыслицкий с/с, 92/4