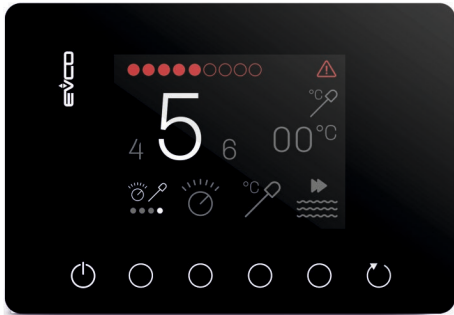


EVJ 700 series

Controllers for horizontal cooking modules



EN ENGLISH

- Front installation on a plastic or metal panel or installed from behind a glass or methacrylate panel (according to the model).
- Power supply 115... 230 VAC.
- Regulation probe and needle probe (Pt 1000 or J/K/Pt 100, according to the model).
- Door switch input.
- Multi-purpose input.
- Alarm buzzer.
- Port for encoder-push.
- TTL MODBUS slave port for programming key, EPoCA remote monitoring system or for BMS.

Available models

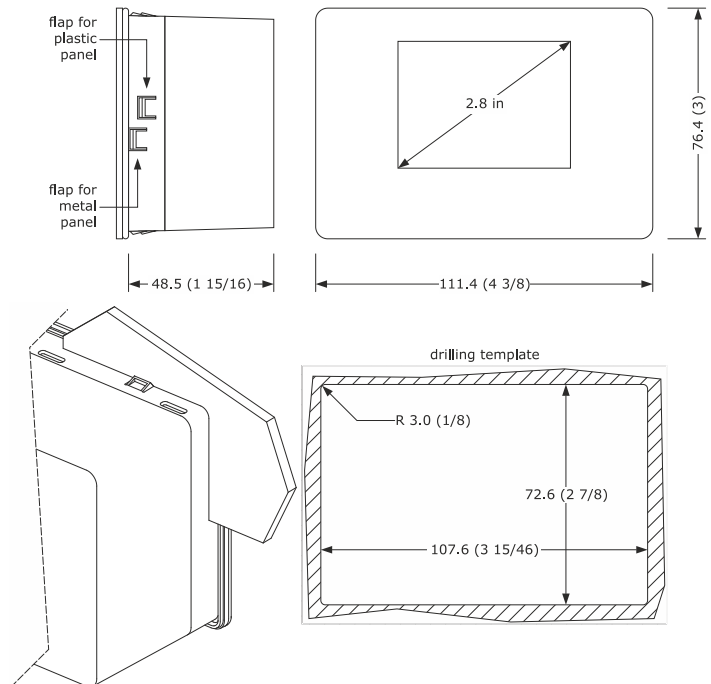
Purchasing code	Installation mode	Power supply	Analogue inputs	Electromechanical relay outputs	Solid state relay outputs
EVJ705Z9	front	115... 230 VAC	2 for Pt 1000	5	-
EVJ705J9	front	115... 230 VAC	2 for J/K/Pt 100	5	-
EVJ705J9VG	from behind	115... 230 VAC	2 for J/K/Pt 100	5	-
EVJ725J9	front	115... 230 VAC	2 for J/K/Pt 100	3	2

1 MEASUREMENTS AND INSTALLATION | Measurements in mm (inches)

1.1 Models in plastic container for front installation

Front installation on a plastic or metal panel (with elastic holding flaps).

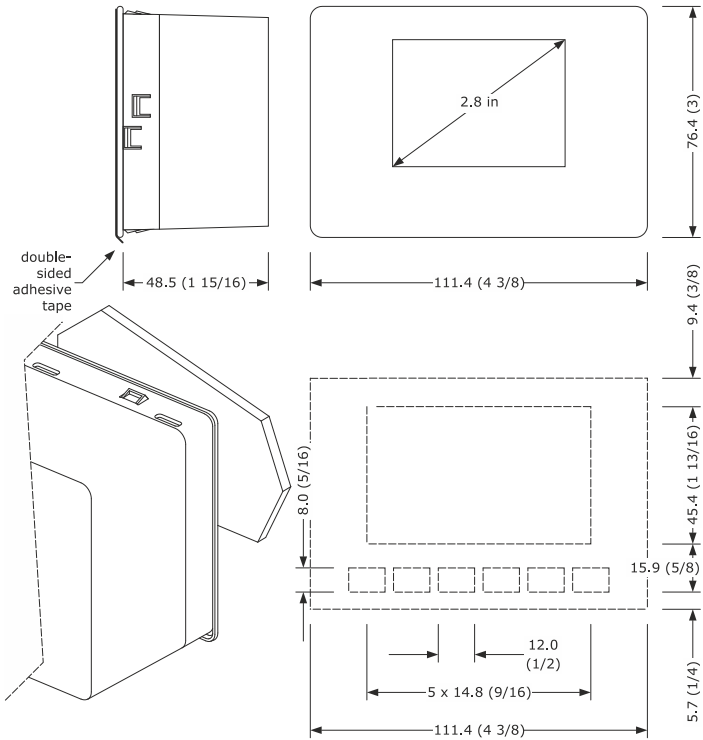
N.B.
The thickness of a metal panel must be between 0.8 and 1.5 mm (1/32 and 1/16 in), while that for a plastic panel must be between 0.8 and 3.4 mm (1/32 and 1/8 in).



1.2 Models in plastic container installed from behind

Installed from behind a glass or methacrylate panel (with biadhesive) customizing the keys on the front of the unit.

N.B.
- The maximum thickness of a glass panel must be 4.0 mm (3/16 in), while that for a methacrylate panel must be 2.0 mm (1/16)
- The panel and the material used to make screen printing must not contain conductive substances
- Keep the device and the panel at a temperature between 15 and 38 °C (59 and 100 °F) about an hour before the installation
- Before the installation clean the panel surface in contact with the biadhesive carefully, making sure the product used to clean is suitable for the panel material (we recommend using isopropyl alcohol, hydrocarbon solvent in case of greasy surfaces); keep cleaning with a cloth as long as it results clean and dry after the use
- During the installation, exert a uniform and constant pressure about 30 s on the panel surface in contact with the biadhesive; later keep the device and the panel horizontally about 48 h at a temperature between 15 and 38 °C (59 and 100 °F).

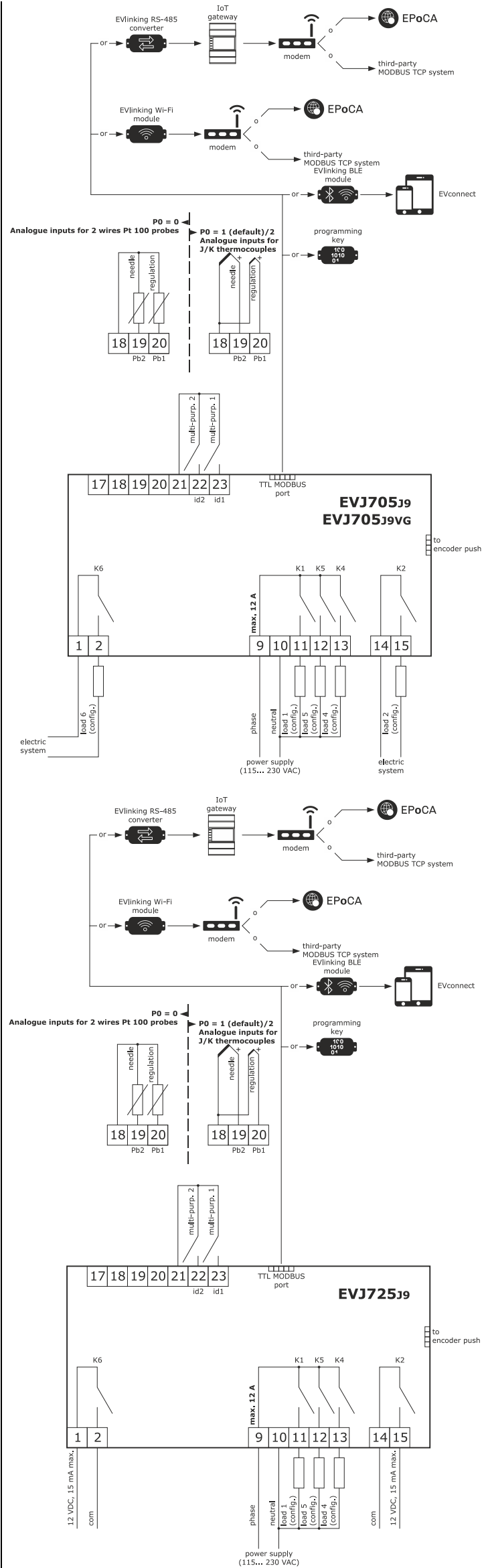
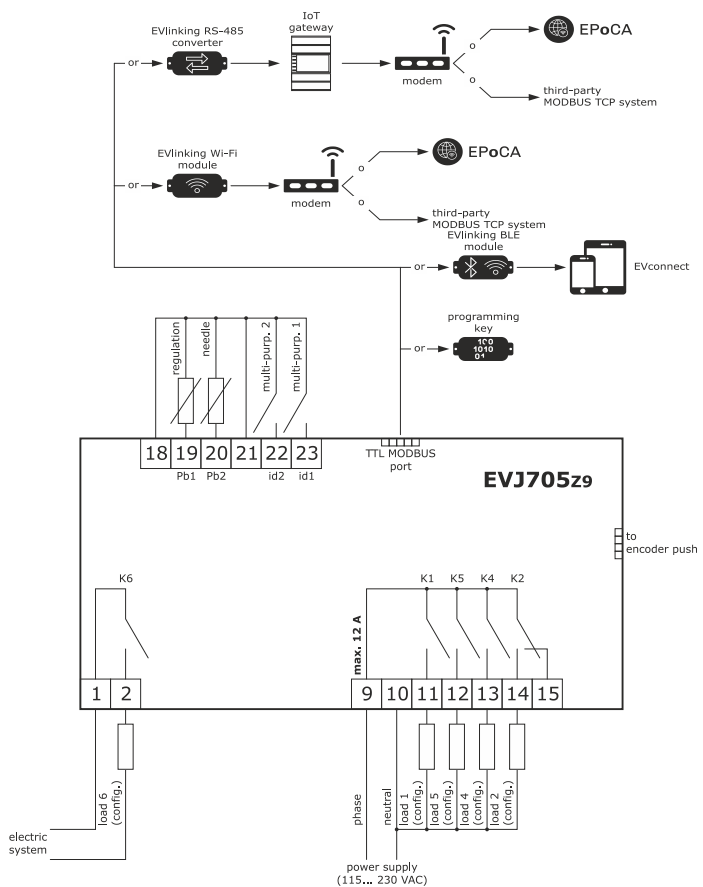


INSTALLATION PRECAUTIONS

- Ensure that the working conditions are within the limits stated in the **TECHNICAL SPECIFICATIONS** section.
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks.
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

2 ELECTRICAL CONNECTION

N.B.
- Use cables of an adequate section for the current running through them.
- To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables.



PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque.
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power.
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section **TECHNICAL SPECIFICATIONS**.
- Disconnect the power supply before doing any type of maintenance.
- Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network.


3 USE

Consult the installer manual (code 144EVJ700E104).

4 TECHNICAL SPECIFICATIONS

Purpose of the control device	Function controller
Construction of the control device	Built-in electronic device
Container	Black, self-extinguishing
Category of heat and fire resistance	D
Measurements	111.4 x 76.4 x 48.0 mm (4 3/8 x 3 x 1 15/16 in)

Mounting methods for the control device	according to the model, front installation on a plastic or metal panel (with elastic holding flaps) or installed from behind a glass or methacrylate panel (with biadhesive) customizing the keys on the front of the unit		
Degree of protection provided by the covering	IP65 (front), on condition the device is fitted to a metal panel with thickness 0.8 mm (1/32 in)		
Connection method			
Fixed screw terminal blocks for wires up to 2.5 mm ² (removable screw terminal blocks for wires up to 2,5 mm ² by request)			
JST connector	Pico-Blade connector		
Maximum permitted length for connection cables			
Power supply: 10 m (32.8 ft)	Analogue inputs: 10 m (32.8 ft)		
Digital inputs: 10 m (32.8 ft)	Digital outputs: 10 m (32.8 ft)		
Operating temperature	From -5 to 55 °C (from 23 to 131 °F)		
Storage temperature	From -25 to 70 °C (from -13 to 158 °F)		
Operating humidity	Relative humidity without condensate from 10 to 90%		
Pollution status of the control device	2		
Conformity			
RoHS 2011/65/CE	WEEE 2012/19/EU	REACH (EC) Regulation 1907/2006	
EMC 2014/30/UE	LVD 2014/35/UE		
Power supply	115... 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 6 VA insulated		
Earthing methods for the control device			
Rated impulse-withstand voltage	2.5 KV		
Over-voltage category	II		
Software class and structure	A		
Analogue inputs	2 for Pt 1000 or J/K/Pt 100 probes (according to the model, regulation probe and needle probe)		
Digital inputs	2 dry contacts (door switch and multi-purpose)		
Dry contact	Contact type	5 VDC, 2 mA	
	Power supply	None	
	Protection	None	
Digital outputs	5 with electro-mechanical relay or 3 with electro-mechanical relay and 2 commands for solid state relay (according to the model)		
Relay K1	SPST, 16 A res. @ 250 VAC		
Relay K2	SPDT, 8 A res. @ 250 VAC (5 A res. @ 250 VAC in EVJ705J9) or 12 VDC max. 15 mA command for solid state relay (according to the model)		
Relay K4	SPST, 8 A res. @ 250 VAC		
Relay K5	SPST, 5 A res. @ 250 VAC (8 A res. @ 250 VAC in EVJ705J9)		
Relay K6	SPST, 5 A res. @ 250 VAC or 12 VDC max. 15 mA command for solid state relay (according to the model)		
The device guarantees double insulation between each digital output connector and the rest of the components of the device			
Type 1 or Type 2 Actions	Type 1		
Additional features of Type 1 or Type 2 actions	C		
Displays	2.8 inch colour graphic display		
Alarm buzzer	Incorporated		
Communications ports	1 TTL MODBUS slave port for programming key, EPoCA remote monitoring system or for BMS		

 N.B.
The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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