



# Certificate of Compliance

Certificate: 70143677

Master Contract: 261831

Project: 70143677

Date Issued: 2017-08-25

Issued to: Eliwell Controls s.r.l.  
Via dell'Industria 15-Z.I. Paludi  
Alpago, Belluno 32016  
ITALY

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



Issued by: *Khaled Feddad*  
Khaled Feddad

## PRODUCTS

CLASS - C482351 - TEMPERATURE INDICATING AND REGULATING EQUIPMENT-Appliance Type Controls - Temperature Controls

Component Type, Incorporated, DIN rail mounting Operating Control:

Operating, Refrigeration control.

1. Models TM172 followed by E, followed by 12 through 28, followed by R and
2. Free Evolution Series, EV followed by D, C, E, or S, followed by 0, 1, 2, 3, 4, 5, 6, 7, 8, 10 or 12, followed by 0 through 6, followed by 0, S, 00, SS, PW or MP, followed by 00, 01, 02, 05 or 06, followed by 0 or any alphanumeric character, followed by B or 5.

## RATINGS:

Input Type	ID connector	Terminal	Rating
Power Supply (Base Board)	CN6 1-2	Supply (L-N)	24Vac, 50/60 Hz, or 24Vdc, SELV Class 2 source (100VA).
Analog Inputs (Base board)	CN3.AI1	AI1	+5Vdc and +24Vdc, 50mA and 125mA max. current.
	CN3.AI2	AI2	



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	CN3.AI3	AI3	0...20mA or 0...10V SELV (Class 2), limited energy circuit less than 15W
	CN3.AI4	AI4	
	CN3.GND	GND	
	CN3.5Vdc	5Vdc	
	CN3.24Vdc	24Vdc	
Analog Inputs (Expansion board)	CN9.AI5	AI5	+5Vdc and +24Vdc, 50mA and 125mA max. current. 0...20mA or 0...10V SELV (Class 2), limited energy circuit less than 15W
	CN9.AI6	AI6	
	CN9.AI7	AI7	
	CN9.AI8	AI8	
	CN9.AI9	AI9	
	CN9.AI10	AI10	
	CN9.GND	GND	
	CN9.5Vdc	5Vdc	
Fast Digital Input (base board)	CN2.COM_ DI	COM_DI	24Vac, 50/60 Hz, or 24Vdc. SELV (Class 2) limited energy circuit less than 15W
	CN2.DI1	DI1	
	CN2.DI1	DI2	
Digital inputs (Expansion board)	CN8.COM_ DI	COM-DI	24Vac, 50/60 Hz, or 24Vdc. SELV (Class 2) limited energy circuit less than 15W.
	CN8.DI3	DI3	
	CN8.DI4	DI4	
	CN8.DI5	DI5	
	CN8.DI6	DI6	

- Max ampacity at the Common terminal CN5 (C123), CN4 (C456), CN11 (C78), CN10 (C910): 9A.
- Switching contacts: 250V.
- Operating temperature -20°C to 65°C.
- Software Class A
- Indoor use

Operating - Not intended to provide any safety or protective functionality. A control which starts or regulates the equipment during normal operation.

Type 1 Action - Calibration Verification Testing or Functionality Verification testing not conducted.

A Type “.B” control has been investigated for “micro disconnection” applications. Disconnection of any pole (ungrounded conductor is not specified) for functional security purposes. Clearance distance across the open contacts for this type of disconnect is NOT specified. However, creepage/clearance distances apply to parts separated by the action and electric strength testing is required across the disconnection.

### **APPLICABLE REQUIREMENTS**



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CAN/CSA -E60730-1: 15 Automatic Electrical Controls for Household and Similar Use - Part 1: General Requirements Edition 5.0 - Issue Date 2015/12/01

CSA E60730-2-9: 15 Automatic Electrical Controls For Household and Similar Use; Part 2: Particular Requirements For Temperature Sensing Controls Edition 3 - Issue Date 2015/09/01

UL 60730-1-2016 Automatic Electrical Controls for Household and Similar Use - Part 1: General Requirements Edition 5.0 - Issue Date 2016/08/03

UL 60730-2-9-2013 Automatic Electrical Controls For Household and Similar Use; Part 2: Particular Requirements For Temperature Sensing Controls Edition 3 - Revision Date 2013/08/16



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70143677	2017-08-25	cCSAus Certification of refrigeration controllers Series TM172E and Free Evolution EV series. Conversion of UL file E233482 project 4787664432.