



Certificate of Compliance

Certificate: 70011619

Master Contract: 261831

Project: 70011619

Date Issued: January 28, 2015

Issued to: Eliwell Controls s.r.l.
Via dell'Industria 15
Pieve D'Alpago, Belluno 32010
ITALY
Attention: Emanuela Cortina

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: Omar Elouadrhiri
Omar Elouadrhiri

PRODUCTS

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

CLASS - C482387 - TEMPERATURE-INDICATING AND REGULATING EQUIPMENT-Appliance Type Temperature Controls-Certified to US Standards

Component Type Operating Control. Programmable controllers intended for monitor and/or control of air conditioning and refrigeration units. Series:

1. Family Energy Flex, SB, followed by 6, followed 0, 1, 2, 3, 4 or 5, followed 0, followed 0, 1 or 2, followed 0, 1, 2 or 3, followed 0, 1, 2, 3, 4 or 5, followed by one alphanumeric digit, followed 0, 1, 2 or 3, followed by 4, may be followed by two alphanumeric digits.
2. Family Free Smart, SMP followed 0, 1, 2, 3, 4 or 5, followed 2 or 5, followed by two alphanumeric digits, followed 00, 01, 02 or 05, followed by one alphanumeric digit, followed by 4, may be followed by two alphanumeric digits.
3. Series Family Modicon M171 Optimised, TM171O, followed by F, may be followed by M, followed by 22, followed by R
4. Electronic Controllers, remote keyboard terminal model SKP10 and TM171DLED.

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Ratings are as follow:

Type	Function	Terminal Designation	Rating	ID connector
INPUTS:	Power Supply	Supply (L-N)	12-24 Vac, 50/60 Hz, or 24 Vdc, Class 2 source, SELV Limited energy <15W	CN4.1-2
	Analogue Input probe	AI1 AI2 AI5	NTC type 10 K Ω at 25°C, or digital input max. 0.5mA. Class 2 circuit, SELV Limited energy <15W	CN4.19 CN4.17 CN4.15
		AI3 AI4	NTC type 10 K Ω at 25°C or 0-5V or 4-20mA/0-1V, Class 2 circuit, SELV Limited energy <15W	CN4.13 CN4.11
	Digital input	DI1 DI2 DI3 DI4 DI5 DI6	Clean contact, max. 0.5mA, Class 2 circuit, SELV Limited energy <15W	CN4.20 CN4.18 CN4.16 CN4.14 CN4.12 CN4.10
	SKP10 and TM171DLED Power Supply	Supply (L-N)	12 Vdc, 1W max, Class 2 circuit, SELV Limited energy less than 15 Watts	LAN 1 2
COMMUNICATIONS	RS-485 Serial	RS-485	Class 2 circuit, SELV Limited energy less than 15 Watts	CN1
	Remote keyboard	LAN	Class 2 circuit, SELV Limited energy less than 15 Watts	CN3
	TTL	TTL		CN5
	SKP10 and TM171DLED Signal	LAN		LAN 3
OUTPUTS	Relay Output RY1	DO1 (NO)	Resistive, 2A, 240Vac, 30K cycles	CN4.3-6 (+)
	Relay Output RY2	DO2 (NO)		CN4.4-6 (+)
	Relay Output RY3	DO3 (NO)		CN4.5-6 (+)
	Relay Output RY4	DO4 (NO)		CN4.7-8 (+)
	Relay Output RY5	DO6 (NO)		CN4.1-2 (+)
	Digital Output	DO5	5Vdc Class 2 circuit, SELV Limited energy <15W	CN4.5
	Analogue Output	AO1 AO2	0-5V max. Class 2 circuit, SELV Limited energy <15W	CN4.6 CN4.8
		AO [3 G] AO [4 G]	0-10V max. Class 2 circuit, SELV Limited energy <15W	CN2.2-3 CN2.4-3
AO[5 G]		20mA max. Class 2 circuit, SELV Limited energy <15W	CN2.1-3	

(+) On Relay Board, Thermal, Pollution degree – 2 or better, Overvoltage Category – II and Software Class - A



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Notes:

1. These devices are certified as component type operating control for use in CSA Certified equipment where the suitability of the combination is to be determined by the CSA Group, Certification and Testing Division.
2. Remote keyboard terminal model SKP10 is intended to be used in conjunction with Series Family Energy Flex and Series Family Free Smart.
3. These devices are provided with main terminal block necessary to connect the board to input supply and to the power outputs, to external controlled devices such as display and NTC or PTC probes dedicated to monitor the temperature, and I/O serial interface in extra low voltage.
4. These devices are intended to be supplied by certified Class 2, SELV circuit with limited energy less than 15 Watts. Except for model SKP10, the line voltage outputs are controlled by mechanically relay mounted on the board intended to control external loads like compressors, fans, defrost, etc for ventilation and/or heating functions.
5. These devices were investigated as a Type 1 action OPERATING CONTROL and to be INCORPORATED in the end use equipment and have not been evaluated for safety or limiting applications.

APPLICABLE REQUIREMENTS

CAN/CSA-E60730-1:13 - Automatic Electrical Controls for Household and Similar Use - Part 1: General Requirements - Third Edition

CAN/CSA-E60730-2-9:01 (R2011) - Automatic Electrical Controls for Household and Similar Use - Part 2-9: Particular Requirements for Temperature Sensing Controls - Second Edition

UL 60730-1: 2009 - Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements - Fourth Edition

UL 60730-2-9: 2010 - Automatic Electrical Controls For Household and Similar Use; Part 2: Particular Requirements For Temperature Sensing Controls - First Edition

MARKINGS

See report.



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

Project	Date	Description
70011619	Jan 28 2015	cCSAus Certification of air conditioning and refrigeration controllers Series Family Energy Flex SB and series Family Free Smart SMP. Conversion of UL file E233482 V1S10.