

Certificate of Compliance

Issued to:	Eliwell Controls s.r.l.		2010 03 13
Project:	70173141	Date Issued:	2018-03-13
Certificate:	70173141	Master Contract:	261831

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.



Alpago, Belluno 32016

ITALY

Issued by: Khaled Feddad Khaled Feddad

PRODUCTS

CLASS - C482351 - TEMPERATURE INDICATING AND REGULATING EQUIPMENT-Appliance Type Controls - Temperature Controls CLASS - C482387 - TEMPERATURE-INDICATING AND REGULATING EQUIP.-Appliance Type-Temperature Controls-Cert to US

Open type incorporated operating controls:

- 1. Model TM172 followed by OD, OB, PD, PB, followed by M or G or blank, followed by 07 to 42, followed by R or S, maybe followed by any 1 to 3 alphanumeric digits.
- 2. Model AV followed by D or C, followed by any number from 0 to 12, followed by 0 to 6, followed by 0, S, 00, SS, followed by 00, 01, 02, 05, 06, followed by any one alphanumeric digit, followed by 5, followed by any two alphanumeric digits.

Ratings:

Inputs

Input Type	ID connector	Terminal	Rating
Power Supply (Base Board)	CN10 1-2	Supply (L- N)	24 Vac, 50/60 Hz, or 20-38 Vdc, SELV Class 2 source (100 VA).



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Digital Inputs (Base board)	CN3 Pulse / Frequency counter	COM_DI DI1 DI2	24 Vac or dc , SELV (Class 2), limited energy circuit less than 15 W	
Analog Inputs (Base board)	CN5	AI1 AI2 CND	+5Vdc and +24Vdc, SELV (Class 2), limited energy circuit less than 15W	
	CN13.AI3	AI3		
	CN13.AI4	AI4		
	CN13.AI5	AI5	+5Vdc and +24Vdc, 40mA and 100mA	
Analog Inputs (Expansion board)	CN13.AI6	AI6	max. current.	
	CN13.AI7	AI7	020mA or 010V	
	CN13.AI8	AI8	SELV (Class 2), limited energy circuit	
	CN13.GND	GND	less than 15W	
	CN5.5Vdc	5Vdc		
	CN5.24Vdc	24Vdc		

COMMUNICATION:

Type/Function	ID connector	Terminal	Rating
CAN Expansion bus	CAN Expansion bus CN18 CAN SELV (Class 2) circuit,		SELV (Class 2) circuit,
(Base board)			limited energy circuit less than 15W.
Serial Line port	CN19	RS485-1	SELV (Class 2) circuit,
(Base board)			limited energy circuit less than 15W.
Serial Line port	CN1	RS485-2	SELV (Class 2) circuit,
(Base board)			limited energy circuit less than 15W.
Ethernet	CN20	ETHERNET	SELV (Class 2) circuit,
(Base board)			limited energy circuit less than 15W.

OUTPUTS(+):

Type of Load	Terminals	Connector ID	ID Relay	Electrical Ratings	Declaration
	designation				
Analogue		CN11 (GND)		SELV (Class 2)	
Outputs	CN11	CN11 (AO1)		circuit, limited	
(Expansion	CNII	CN11(AO2)		energy circuit less	
board)		CIVIT (AO2)		than 15W.	
Digital Outputs (Base board)	CN9	CN9 (C12) –	K2	Normally Open,	
		CN9 (D02)		Resistive, 3A,	Type 1.B
	CN9	CN9 (C12) – CN9 (D01)	K3	250Vac 100k	All models
				cycles	(TM172PDG18S -
				Motor load,	AVD62SS060500
				2FLA/12LRA,	only for relay
				250Vac,	outputs)
				100K cycles.	~ `



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	CN6	CN6 (C3) - CN6 (D03-) - CN6 (D03)	K1	Changeover, Resistive, 3A, 250Vac, 100k cycles; 1/6 HP, 250Vac, 6K cycles NO contact only.	
Digital Outputs (Expansion board)	CN15	CN15 (DO6) - CN15 (C6)	K2	Normally open, Resistive 3 A 250	
	CN15	CN15 (DO5) - CN15 (C5)	K3	Vac, 100K cycles ; 2 FLA/12 LRA,	
	CN15	CN15 (DO4) - CN15 (C4)	K1	250 Vac, 100K cycles	
	CN15	CN15 (DO5) - CN15 (C5)	K4	0.2 A 240 Vac	Type 1.Y Model
	CN15	CN15 (DO4) - CN15 (C4)	К5	0.2 A 240 Vac	TM172PDG18S - AVD62SS060500 only

Maximum ampacity for terminal No. CN6 (C3), CN15 (C4), CN15 (C5), CN15 (C6): 3 A Maximum ampacity for terminal No. CN9 (C12): 6 A

(+) Glossary:

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.

A Type ".Y" control has been investigated for "electronic disconnection" applications.

Switching contacts: 250Vmax. Operating temperature: -20°C to 60°C all models except TM172PDG18S - AVD62SS060500 and -20 °C to 55 °C models TM172PDG18S - AVD62SS060500

Software Class A Indoor use



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APPLICABLE REQUIREMENTS

CAN/CSA-E60730-1:13, Fourth Edition, dated March, 2013 CAN/CSA-E60730-2-9:15, third Edition, dated September, 2015 UL 60730-1: Edition 5.0 - Issue Date 2016/08/03 UL 60730-2-9, Third Edition, dated October 13, 2010 including revisions through August 16, 2013



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.

Project	Date	Description
70173141	2018-03-13	Initial certification for Canada and US of incorporated operating electronic control Models TM172 followed by OD, OB, PD, PB, follow ed by M or G or blank, followed by 07 to 42, followed by R or S, maybe followed by any 1 to 3 alphanumeric digits and Models AV followed by D or C, followed by any number from 0 to 12, followed by 0 to 6, followed by 0, S, 00, SS, followed by 00, 01, 02, 05, 06, followed by any one alphanumeric digit, followed by 5, followed by any two alphanumeric digits

Product Certification History