



Certificate of Compliance

Certificate: 70054869

Master Contract: 177618

Project: 70054869

Date Issued: 2017-06-26

Issued to: Heinzmann GmbH & Co. KG
Am Haselbach 1
79677 Schoenau im Schwarzwald
GERMANY
Attention: Mr. Ronny Graenz

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Michael Janker
Michael Janker

PRODUCTS

CLASS 2253 01 - Industrial Automation Products -
CLASS 2253 81 - Industrial Automation Products - Certified to US Standards

XIOS UC1 universal control intended for engine management control, rated 24 Vdc, 16-32 Vdc (absolute limits),
+VBAT_P: Max. current 25 A,
+VBAT_C: Max. current 2 A,
overvoltage category I (below the limits of clause 6.3.1).

Notes:

1. The above model is permanently connected, Pollution Degree 2, Protection class III, Overvoltage Category I.
2. Mode of operation: Continuous/
3. Environmental Conditions: Normal: 5 to 40 °C, 2000 m max, 80 % r.h. to temperatures up to 31 °C decreasing linearly to 50 % r.h. at 40 °C; or Extended/as specified by manufacturer: -40 °C up to +70 °C



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APPLICABLE REQUIREMENTS

- | | |
|---|---|
| CAN/CSA-C22.2 No. 61010-1-12 | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements |
| CSA-IEC 61010-2-201 | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular requirements for control equipment |
| UL Std. No. 61010-1 (3 rd Edition) | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements |
| UL 61010-2-201 | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular requirements for control equipment |

CONDITIONS OF ACCEPTABILITY

- (1) EUT is open-type equipment according to IEC/EN 61010-2-201:2013:
The product is only to be installed into metal enclosure with adequate mechanical strength covering all electrical circuits and parts. This metal enclosure is required to serve as fire enclosure as well as protection against mechanical stresses and electric shock.
- (2) The products are required to be supplied only by certified power supply providing reinforced or double insulation for protection against electric shock with output voltages below the limits of 6.3.1 of 61010-1 or 30 V r.m.s. and 42.4 V peak or 60 Vdc.
- (3) Equipment is only to be installed by trained personal in accordance to the installation, set-up, operation and maintenance of comparable devices and certified as being capable of such work.
Special considerations:
 - Suitable rated circuit breakers or fuses (as described in installation manual), which shall be separately certified, shall be used in end-use installation.
 - External wiring shall be separately certified, shall be used in end-use installation.
 - Terminal blocks: For connections to +VBAT_C, +VBAT_P and 0V each two wirings (wiring diameter is specified in the installation manual) shall be connected. Max. current 15 A for each conductor.
- (4) If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.
- (5) 400 Vdc switching circuit was not part of this investigation, as relevant components have not been mounted in test sample.
- (6) EUT is marked within protective earthing symbol, even if it is considered protection class III equipment. Protective earthing and bonding requirements shall be evaluated in end-use installation including separate evaluation of protection class I requirements, if end-use equipment is considered as protection class I equipment..



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
70054869	2017-06-26	Original Certification of XIOS UC1, universal control intended for engine management control. According to CAN/CSA-C22.2 No. 61010-1-12, CSA-IEC 61010-2-201, UL Std. No. 61010-1 (3rd Edition) and UL 61010-2-201, classes 2253-01 and 2253-81.