



Certificate of Compliance

Certificate: 80027473

Master Contract: 242690

Project: 80069160

Date Issued: January 14, 2022

Issued To: MSA EUROPE GmbH
Schlüsselstrasse 12
Rapperswil-Jona, St. Gallen, 8645
Switzerland

Attention: Frank Scheidemann

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:

Sripriya Kalyanasundaram

PRODUCTS

CLASS 2258 02 – PROCESS CONTROL EQUIPMENT – For Hazardous Locations

CLASS 2258 82 – PROCESS CONTROL EQUIPMENT – For Hazardous Locations – Certified to U.S. standards

The Wireless Router type **MSA ALTAIR io360 HUB** provides wireless connectivity for MSA wireless devices to internet or intranet. The router acts as a gateway and integrates different wired and wireless technologies signals such as Wi-Fi, Bluetooth, Ethernet, LTE (GSM), GPS and telemetry radio. The router is powered by an external 24 Vdc power supply via a plug and socket combination and can optionally equipped with a wired Ethernet cable through a cable gland. The wireless signals are transmitted via a combination antenna, a bar antenna and a LTE diversity antenna. The front of the router is equipped with a number of indicator LEDs.

Class 1, Div 2, Groups A-D
Ex ec ic IIC T4 Gc
Temperature class T4



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Class I Zone 2, AEx ec ic IIC T4 Gc

-20 °C ≤ Tamb ≤ +60 °C

Electrical data

Power supply: 24 Vdc, 5W

APPLICABLE REQUIREMENTS

| | |
|--|---|
| CAN/CSA-C22.2 No. 0-10 (R2015) | General requirements — Canadian Electrical Code, Part II |
| CAN/CSA-C22.2 NO. 60079-0:19 | Explosive atmospheres – Part 0: Equipment – General requirements (Adopted IEC 60079 0:2017, seventh edition, 2017-02, with Canadian deviations) |
| CAN/CSA-C22.2 No. 60079-7:16 | Explosive Atmospheres - Part 7: Equipment Protection By Increased Safety E (Adopted IEC 60079-7:2015, Fifth Edition, 2015-06, With Canadian Deviations) |
| CAN/CSA C22.2 NO. 60079-11:14 (R2018) | Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i” |
| CAN/CSA-C22.2 No. 61010-1-12 | Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements |
| ANSI/ UL 60079-0 Seventh Edition | Standard for Explosive Atmospheres – Part 0: Equipment – General Requirements |
| ANSI/UL 60079-7 Fifth Edition | Standard for Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety “e” |
| ANSI/UL 60079-11 Sixth Edition | Standard for Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i” |
| ANSI/ISA-61010-1 3 rd Edition | Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements – Third Edition |

Conditions of Acceptability:

1. The equipment shall be installed and maintained such that the risk of electrostatic discharge is minimized.
2. The equipment shall be protected from UV rays.
3. The equipment shall be installed in the upright position in accordance with the instructions.
4. The equipment shall be protected against an impact energy in excess of 4J on the power supply plug and connector.
5. The equipment shall only be used in an area of not more than pollution degree 2.



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MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed 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 U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following markings appear on the product:

- CSA monogram with c us indicator. The products listed 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, as shown on the Certificate of Compliance. The product may bear one of the following CSA Markings:



- Manufacturers name "MSA", or CSA Master Contract number "242690" adjacent the CSA Mark, in lieu of manufacturers name.
- Model designation, as specified in the PRODUCTS section, above.
- Maximum ambient temperature rating, as specified in the PRODUCTS section, above.
- Complete electrical ratings
- Date code / Serial number traceable to month and year of manufacture.
- Hazardous locations designation, as specified in the PRODUCTS section, above or equivalent.
- Temperature code, as specified in the PRODUCTS section, above.
- Warning marks must be applied on the equipment label both in English and French.
- Certificate Number Reference 'CSA20CA80027473X' next to the CSA logo.
- Install/Use equipment in accordance with approval drawing DG4100401.

Method of Marking:

By means of a non-metallic adhesive label on the enclosure of the product.

Material: Polyester or polycarbonate film, metalized with a permanent adhesive.

Manufacturer: Avery Dennison Materials Europe, P/N: Datapol Silver

UL Listed: MH27538

Adhesive: Acrylic

Thickness: 0.55 mm



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RoHS and REACH compliant.
Refer to manufacturer document DG4100003.

Notes:

Products certified under Class C225802 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





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 |
|----------------|-------------|---|
| 80069160 | 2020-01-14 | Variation to cCSAus approval 80027473 of MSA Altair io360 Hub <ul style="list-style-type: none">• Addition of LTE antenna with protection cover• Modifications of the main board electronics• Introduction of LRR filter PCB and the LRR filter components have been moved from the main board to the LRR filter PCB.• Recognise modified mainboard drawings• Modification of the manufacturer and operating temperature of the coin cell |
| 80027473 | 2020-03-30 | Original Certification. Wireless Router type MSA ALTAIR io360 HUB for hazardous locations. |