



Certificate of Compliance

Certificate: 2587194

Master Contract: 249853

Project: 70173719

Date Issued: March 16 2018

Issued to: HMi Elements Limited
Unit A & B
Windmill Industrial Estate
Showfield Lane
Malton,
North Yorkshire
YO17 6BT
UNITED KINGDOM

Attention: Mr. David Watson

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:

A handwritten signature in black ink, appearing to read 'James Jarman'.

James Jarman

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Associated Apparatus - For Non-Hazardous (Ordinary) Locations

[Ex ib Gb] IIB

For supply into a Class I, Zone 1, Group IIB hazardous location

Model 1900 Wireless Access Point: intrinsically safe associated apparatus; Input rated 100-240 Vac, 50/60 Hz, 0.6 A; Um = 250Vac or dc, providing intrinsically safe circuits with entity parameters at the antenna output of: Uo = 6.51V, Io = 1.032A (at 2.4GHz), Po = 1.68W (at 2.4GHz), Ci = 10.5µF, Co (Ca) = 1.8 µF, Li = 0, Lo (La) = 9.6 µH; when installed per installation drawing D100079; Ambient: 0°C to +50°C. For use only in an indoor or protected environment.



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Note: the antenna connected to the intrinsically safe output is not covered by the certificate. The antenna and cable shall meet all applicable codes and it shall be subjected to acceptance of local authority having jurisdiction.

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Associated Apparatus - For Non-Hazardous (Ordinary) Locations - CERTIFIED TO U.S. STANDARDS

[AEx ib Gb] IIB

For supply into a Class I, Zone 1, Group IIB hazardous location

Model 1900 Wireless Access Point: intrinsically safe associated apparatus; Input rated 100-240 Vac, 50/60 Hz, 0.6 A; $U_m = 250V_{ac}$ or dc, providing intrinsically safe circuits with entity parameters at the antenna output of: $U_o = 6.51V$, $I_o = 1.032A$ (at 2.4GHz), $P_o = 1.68W$ (at 2.4GHz), $C_i = 10.5\mu F$, $C_o (Ca) = 1.8\mu F$, $L_i = 0$, $L_o (La) = 9.6\mu H$; when installed per installation drawing D100079; Ambient: $0^{\circ}C$ to $+50^{\circ}C$. For use only in an indoor or protected environment.

Note: the antenna connected to the intrinsically safe output is not covered by the certificate. The antenna and cable shall meet all applicable codes and it shall be subjected to acceptance of local authority having jurisdiction.

APPLICABLE REQUIREMENTS

- | | |
|-------------------------------|--|
| C22.2 No. 0-10 | - General Requirements – Canadian Electrical Code, Part II |
| C22.2 No. 142-M1987 | - Process Control Equipment |
| CAN/CSA-C22.2 No. 60079-0:11 | - Explosive Atmospheres - Part 0: Equipment - General requirements |
| CAN/CSA-C22.2 No. 60079-11:11 | - Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety "i" |
| UL 916 (4 th Ed.) | - Energy Management Equipment |
| ANSI/UL 60079-0:09 | - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements |
| ANSI/UL 60079-11:09 | - Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i" |



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MARKINGS

The marking plate is made from stainless steel and affixed to the metal enclosure using two screws. Marking onto the plate is by means of laser engraving.

- CSA Monogram w/C US indicators.
- Manufacturer's name.
- Model designation.
- Date code or S/N.
- Electrical input rating
- Certificate reference (i.e. "CSA 2012 2587194")
- Ambient temperature range: "Tamb: 0°C to +50°C" or equivalent.
- The symbol "[Ex ib Gb] IIB" and the words "intrinsically safe associated apparatus"
- The symbol "[AEx ib Gb] IIB" and the words "intrinsically safe associated apparatus"
- Reference to I.S. Control Drawing D100079.
- **WARNING:** Substitution of components may impair intrinsic safety.
- **AVERTISSEMENT:** La substitution de composants peut compromettre la sécurité intrinsèque
- Statement: "For indoor use only"