



Certificate of Compliance

Certificate: 1981011

Master Contract: 241576

Project: 70209859

Date Issued: July 03, 2019

Issued to: INFICON AB
Westmansgatan 47F
582 16,
Linköping,
Sweden

Attention: Fredrik Enquist

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: Goutam Das.
Goutam Das

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive - Systems-For Hazardous Locations-Certified to U.S. Standards

Exia IIC:

AExia IIC:

Hydrogen Leak Detector System; portable, consisting of Model Extrima Detector, battery operated, 11.25 Vnominal (three Lithium-Ion non-field-replaceable Batteries); intrinsically safe and providing intrinsically safe circuits to Model PX50x Probe, via P/N CX21 Connection Cable; Temperature Code T3; -20 °C < Tamb. < +50°C; IP 67.

Note (HAZLOC): the suffix “x” in the PX50x model number denotes minor variations in the physical characteristics of the Probe nozzle (not affecting safety).



Certificate: 1981011

Master Contract: 241576

Project: 70209859

Date Issued: July 03, 2019

Notes (ORDLOC):

1. The above model is Portable Equipment, Equipment Class III, Pollution Degree 2, Overvoltage Category I.
2. Mode of operation: Continuous
3. Environmental Conditions: Normal and Extended from -20°C to +50°C as specified by manufacturer
4. Rated IP67 for the Enclosure only
5. Approximately 4 kgs.

Conditions of Acceptability (HAZLOC):

- i. Battery Charger must be CSA Certified (or equivalent), with a maximum charging voltage of 12.6V and a maximum charging current of 770 mA.
- ii. As aluminium is used at the accessible surface of this equipment, in the event of rare incidents, ignition sources due to impact and friction sparks could occur. This shall be considered when the Extrima Hydrogen Leak Detector is being installed in locations that specifically require level of protection Ga.

Conditions of Acceptability (ORDLOC):

- i. 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.
- ii. The equipment is rated IP67 (except for the probe), where the assessment is done under Report No. 1981011.
- iii. The equipment should be used with a charger, considered Limited Power Source or Limited Energy Circuit or NEC Class 2 Power Supply.
- iv. The equipment is supplied with a strap, which the compliance for “Provisions for lifting and carrying” shall be considered at end application.

Conditions of Manufacturer:

- i. The permitted battery pack shall be constructed from 3 series connected SAFT type MP174865IS or type MP174865 or type SAFT MP 174565 ise Lithium ion rechargeable cells all encapsulated in Wacker Elastosil RT675.



Certificate: 1981011
Project: 70209859

Master Contract: 241576
Date Issued: July 03, 2019

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	General Requirements – Canadian Electrical Code, Part II
CAN/CSA-C22.2 No. 60079-0:07	Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements
CAN/CSA-E60079-11:02	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic Safety "i"
CAN/CSA-C22.2 No. 60529:05	Degrees of protection provided by enclosures (IP Code)
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"
ANSI/IEC 60529:2004	Degrees of Protection Provided by Enclosures (IP Code)
CAN/CSA-C22.2 No. 61010-1-12 Update 1 July 2015, and update 29 April 2016	Safety requirements for electrical equipment for and measurement, Control and laboratory use — Part 1: General requirements
UL Std. 61010-1 (3 rd edition) Update 1 July 2015, and update 29 April 2016	Safety requirements for electrical Equipment for and Measurement, Control and laboratory use — Part1: General Requirements
IEC/CSA 60529-1	Degrees of protection provided by enclosures (IP Code)



Certificate: 1981011
Project: 70209859

Master Contract: 241576
Date Issued: July 03, 2019

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.

For the Extrima Detector and CX21 cable the following markings are provided on a min 0.02 in thick metal nameplate, secured to the enclosure with adhesive (Refer to Drawing 1421). For the Probe the following markings are produced by a laser-engraving method printed directly on the side of the aluminum handle:

Extrima Detector

- CSA Monogram with C US Indicator;
- Company name;
- Model number;
- Serial number or Date Code (appears on a separate nameplate);
- Certificate reference (“CSA 2007 1981011 X”)
- Hazardous Location designation for Canada: “Exia IIC T3” (In addition to these required markings, the following optional markings may also appear: “Class I, Zone 0, Group IIC”)
- Hazardous Location designation for the US: “Class I, Zone 0 AExia IIC T3”
- Ambient Temperature (“Ta = -20 Deg. C to + 50 Deg. C”)
- The statement: “WARNING – Charge batteries in safe area only. Do not open detector” (appears on separate label)
- The statement: “Charging Um = 12.6 V, max 770 mA”

PX50x Probe

- Model number
- Serial number or date code
- The statement: “Part of Extrima Detector System”
- The statement: “See label on detector for details”

CX21 Connection Cable

- Model number
- The statement: “Part of Extrima Detector System”
- The statement: “See label on detector for details”

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".