



Certificate of Compliance

Certificate: 70006281

Master Contract: 261530

Project: 80108701

Date Issued: 2022-03-09

Issued To: Litre Meter Ltd
Hart Hill Barn, Granborough Rd,
North Marston, Buckinghamshire, MK18 3RZ
United Kingdom
Attention: Charles Wemyss

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: *Khushboo Patel*
Khushboo Patel



PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Div 1, Groups B, C, D;
Class II, Div 1, Groups E, F, G; Class III, Div 1
Ex d IIC T5 Gb
Ex tb IIIC T80°C Db
 $T_{amb} = -20^{\circ}\text{C}$ to $+75^{\circ}\text{C}$
IP66/IP68 (2m)

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

Class I, Div 1, Groups B, C, D;
Class II, Div 1, Groups E, F, G; Class III, Div 1
Class I, Zone 1, AEx d IIC T5 Gb
Zone 21 AEx t IIIC T5 Db



$T_{amb} = -20^{\circ}\text{C}$ to $+75^{\circ}\text{C}$
IP66/IP68 (2m)

Models

FlowPod, standard mounting
FlowPod, remote mounting
FlowPod, stand alone Mounting
Electrical Rating; 12 - 30 VDC; 2 W

Notes:

1. The above models are cord connected, Equipment Class 1, Pollution Degree 2 and Overvoltage Category II.
2. Mode of operation: Continuous
3. Environmental Conditions: 2000m max, Maximum ambient temperature for all models: -20 to $+75^{\circ}\text{C}$
4. Weight of Equipment: FlowPod without cap 1.6kg.

CONDITIONS OF ACCEPTABILITY

- (1) The Flow Pod is externally powered by a NEC Class 2, 12-30Vdc, 0.09 A, 5W max CSA or other NRTL certified main supply and must be an approved type acceptable to the authorities in the country where the equipment is sold.
- (2) The Flow Pod shall be installed and used within the ambient temperature range that is marked on the product, however, when the products are being stored, the lower temperature remains the same, but the maximum temperature may be raised to 75°C .
- (3) Equipment has only been tested for electrical safety. No evaluation of functional safety and performance characteristics has been conducted.
- (4) Stand alone unit shall be used with Class I, Groups B, C, D & Class II, Groups E, F and G & Class III and Ex db and Ex tb certified cable gland with $-40^{\circ}\text{C} \leq T_{amb} \leq 85^{\circ}\text{C}$, suitable for this application.

APPLICABLE REQUIREMENTS

C22.2 No. 25-1966	- Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
C22.2 No. 30-M1986	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:11	- Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
CAN/CSA-C22.2 No. 60079-1:11	- Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures "d"
CAN/CSA-C22.2 No. 60079-31:12	- Electrical apparatus for explosive gas atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
CAN/CSA-C22.2 No. 60529:05	- Degrees of protection provided by enclosures (IP Code)
FM Class 3600:2011	- Electrical equipment for use in hazardous (classified) locations, general requirements
FM Class 3615:2006	- Explosion proof equipment, general requirements
FM Class 3616:2011	- Dust-ignitionproof electrical equipment, general requirements
ANSI/ISA 60079-0:2013	- Explosive atmospheres - Part 0: Equipment - General requirements
ANSI/ISA 60079-1:2013	- Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"



ANSI/ISA 60079-31:2013	- Explosive atmospheres - Part 31: Equipment protection by enclosure "t"
ANSI/IEC 60529:2004	- Degrees of Protection Provided by Enclosures (IP Code)
CAN/CSA C22.2 No. 61010-1-12	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements - Third Edition
ANSI/ISA-61010-1 3rd Edition	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements - Third Edition

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 marking details appear:

- CSA Mark with adjacent indicators 'C' and 'US' for Canada and US.
- Manufacturer's name.
- Model designation, as specified in the PRODUCTS section.
- Electrical rating, as specified in the PRODUCTS section.
- Maximum ambient temperature rating, as specified in the PRODUCTS section.
- Date code / Serial number traceable to month and year of manufacture.
- Hazardous Location designation, as specified in the PRODUCTS section.
- Temperature code, as specified in the PRODUCTS section.
- Ingress Protection Rating "IP 66/IP68 (2m)".
- The warning: "OPEN CIRCUIT BEFORE REMOVING COVER." AND "ATTENTION: NE PAS OUVRIR SAUF DE TENSION OU ZONE EST CONNU POUR ÊTRE NON DANGEREUX"
- The warning: "SEE INSTALLATION INSTRUCTION DOCUMENT" AND Avertissement : voir le manuel d'installation
- Statement: "A SEAL SHALL BE INSTALLED WITHIN 50 MM OF THE ENCLOSURE". AND UN JOINT DOIT ÊTRE INSTALLÉ À MOINS DE 50 MM DE L'ENCEINTE
- CSA Certificate Number CSA 15-70006281

The marking label is minimum 0.5 mm thick stainless steel and secured to the equipment with rivets.



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
80108701	2022-03-09	Update to report 70006281 is to address FIR, add stand alone model, revise manual and drawing numbers.
70006281	2015-08-24	Original certification of Flow Pod