



Certificate of Compliance

Certificate: 2653569

Master Contract: 150912

Project: 80088088

Date Issued: June 17, 2022

Issued To: Ashcroft Inc.
250 East Main St
Stratford, Connecticut, 06614
United States

Attention: Alex Carrio

The products listed below are eligible to bear the CSA Mark shown

Issued by: *Semyon Baum*
Semyon Baum



PRODUCTS

CLASS - C225804 - PROCESS CONTROL EQUIPMENT Intrinsically Safe, Entity - For Hazardous Locations

Class I, Division 1, Groups A, B, C, D; T4
II 1 G Ex ia IIC T4 Ga -20°C ≤ Ta ≤ 50°C

PTE-2ISa Hand Held Calibrator (Heise)
ATE-2ISa Hand Held Calibrator (Ashcroft)

Intrinsically Safe when installed as specified by controlled drawing 825A028, Temperature Code T4, Operating Temperature range: Ta = -20°C to +50°C

Entity Parameters:

Ui = 33 Vdc, Ii = 300 mA, Pi = 1.5 W, Ci = 0, Li = 0

a = MB or MI



HM2abcdefg Hand Held Calibrator Pressure Module (Heise)

HM2-TC1 Hand Held Calibrator Thermocouple Module (Heise)

HM2-RT1 Hand Held Calibrator RT Module, 400 Ohm Reference (Heise)

HM2_RT2 Hand Held Calibrator RT Module, 4000 Ohm Reference (Heise)

Operating Temperature range: Ta = -20°C to +50°C

The capacitive sensors measure pressure ranges from 0.25 inches of water to 200 inches of water. The strain gauge sensors measure pressure ranges from 5 psi to 10,000 psi.

AM2abcdefg Hand Held Calibrator Pressure Module (Ashcroft)

AM2-TC1 Hand Held Calibrator Thermocouple Module (Ashcroft)

AM2-RT1 Hand Held Calibrator RT Module, 400 Ohm Reference (Ashcroft)

AM2_RT2 Hand Held Calibrator RT Module, 4000 Ohm Reference (Ashcroft)

Operating Temperature range: Ta = -20°C to +50°C

The capacitive sensors measure pressure ranges from 0.25 inches of water to 200 inches of water. The strain gauge sensors measure pressure ranges from 5 psi to 10,000 psi.

a = 1 or 2

(Sensor type: 1- capacitive sensor, 2- piezo-resistive sensor)

b = B, C, D, F, G, or H

(Accuracy level: A - 0.25% Std, B – 0.1% Std, C – 0.05%-0.07% Std, D – 0.025% Std, F – 0.1% Enh, G – 0.05% Enh, H – 0.25% Enh.)

c = A, I, or O

(Compatibility: A – non-isolated sensor, I – Isolated sensor, O – Oxygen service, isolated)

d = G, A, V, C, or D

(Pressure type: G – Gauge, A – Absolute, V – Vacuum, C – Compound, D – Differential)

e = PSI, InH₂O, InHG, KPa, mBar, cmH₂O, mmHG, Bar, kgcm², MPa, or mmH₂O

f = 0.1 - 10000 and V1 - V4000

g = A, B, C, D, or E

(Inlet fitting type: 1 – 1/8 NPT , 2 – 1/8 NPT w/Flush port, C – G1/8 British inlet, D - G1/8 British inlet w/Flush port, E – 0.3125-24UNJF MS33649-02)

Special Condition of Use:

- 1) Use only Duracell Model MN1500 AA Alkaline primary cell batteries.
- 2) No connections shall be made to the communications “USB” port in Hazardous Locations.

Conditions of Acceptability:

- 1) The Panasonic BR1225 Lithium battery is not user replaceable.



APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 61010-1 - 2004	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements - Second Edition
CAN/CSA C22.2 No 60079-0:19	Explosive atmosphere-Part 0: Equipment-General requirements
CAN/CSA C22.2 No. 60079-11:14	Explosive atmospheres-Part 11: Equipment by intrinsic safety “i”

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 without an indicator for Canada only (indicating that products have been manufactured to the requirements of Canadian Standards).

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.

The markings are provided on 304 stainless steel nameplate secured with non-removable fasteners (a metal label that is riveted to the plastic enclosure). Label image etched and black filled. Marking applied to outside of the instrument on the battery cover (not detachable) and are readily accessible during normal use.

Main label is per HHC Label IS Version drawing 238A746 Rev.D. The main label located on the battery compartment cover will contain the main WARNING statement, the entity parameters, and the following:

- Listee name: "ASHCROFT", or CSA Master Contract Number "150912", adjacent to the CSA Mark in lieu of manufacturers name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- Enclosure ratings: "TYPE X", and "IP xx" (as appropriate).
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation, as specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.

Warnings in the user manual and installation diagram will include words to effect of:



WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY and
“AVERTISSEMENT : LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ
INTRINSÈQUE” ;

WARNING: USE ONLY DURACELL MODEL MN1500 AA ALKALINE PRIMARY CELL BATTERIES;
WARNING: TO PREVENT IGNITION OF A HAZARDOUS ATMOSPHERE, BATTERIES MUST ONLY BE
CHANGED IN AN AREA KNOWN TO BE NONHAZARDOUS and AVERTISSEMENT : AFIN DE
PRÉVENIR L'INFLAMMATION D'ATMOSPHÈRES DANGEREUSES, NE CHANGER LES BATTERIES
QUE DANS DES EMPLACEMENTS DÉSIGNÉS NON DANGEREUX.

WARNING: THE BATTERY ACCESS COVER IS NOT TO BE REMOVED, WHILE IN A HAZARDOUS
LOCATION;

WARNING: USE ONLY PANASONIC BR1225 LITHIUM COIN BATTERIES FOR REAL TIME CLOCK
BACKUP.

WARNING: REFER TO OPERATING MANUAL FOR PROPER LITHIUM BATTERY INSTALLATION
INSTRUCTIONS.

WARNING: THE USB/SD ACCESS COVER IS NOT TO BE REMOVED, WHILE IN A HAZARDOUS
LOCATION;

WARNING: THE USB CONNECTION -DATA TRANSMISSION AND POWER INPUT- ARE RESTRICTED
TO BE USED IN A NON-HAZARDOUS AREA ONLY.

Internal Battery Holder as well as Operators Manual shall have the battery polarity markings.

Notes:

Products certified under Class C225804 have been certified under CSA’s ISO/IEC 17065
accreditation with the Standards Council of Canada (SCC). www.scc.ca



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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
80088088	2022-06-17	Evaluation for update to CSA report 2653569 (last update 80026657) to include new drawing 313D754 rev G due to alternate components for D5, D8, D12, U11, U14 U9, U8, U4, Q4, Q28 and L4 to L7. CSA Standard No. 157 has been withdrawn and replaced by CAN/CSA C22.2 No. 60079-11:14 including the general requirement standard CAN/CSA C22.2 No. 60079-0:19..
80026657	2019-12-16	Evaluation to update to Report 2653569 to include updated drawing 560D779 to revision C. Quote assumes no additional testing is required.
70180694	2018-04-23	Evaluation to update to Report 2653569 to include updated drawing.
70156924	2017-10-30	Evaluation to update report 2653569 to review drawing changes. This includes additional components and layout changes to the PWB.
70073055	2016-04-22	Evaluation to update Report 2653569 to include updated drawings.
70061286	2016-01-22	Evaluation to update Report 2653569 to include updated drawings; per only a paperwork review.
70017622	2014-12-22	Evaluation to update Report 2653569 to include change to USB Protection Device; per only a paperwork review. Additional funds to be requested for any testing determined required.
70008879	2014-08-19	Evaluation to Update Report 2653569 to include drawings and revision to USB Protection Device; per submittal of FM Revision/Test Report. Additional funds to be requested for any testing determined required.
2669167	2013-11-14	Acceptance of changes per FM report 797-34129-283.



2653569

2013-10-25

Original certification of PTE-2 and ATE-2 Hand Held Calibrator as I.S. with pressure modules HM2 and AM2. Based on review and acceptance of FM Report for CSA Standards.