



Certificate of Compliance

Certificate: 2147122

Master Contract: 244958

Project: 80198079

Date Issued: April 12, 2024

Issued To: BARTEC ORB Inc.
4724 S. Christiana
Chicago, Illinois 60632
United States

Attention: Jason Sewell

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.



Zahra Amini
Issued by: Zahra Amini

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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

Class I, Division 1, Groups B, C and D

Model P Series Analysers:

1. Flash Point Analyzer - Model P-500-1400 Flash Point Analyzer, input 100-240 Vac, 50/60 Hz, 2A;
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$; Température code: T6
2. Salt in Crude Analyzer – Model P-600-1400, input 120Vac , 5A or 240 Vac, 2.5A; 50/60Hz,
 $20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$; Température code: T5
3. Vapor Analyzer - Model P-700-1400 RVP Analyzer, input 100-240 Vac, 50/60 Hz, 2A;
4. $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$; Température code: T6
5. Freeze Point Analyzer - Model P-800LT-1400, input 120 Vac, 5A or 240 Vac, 2.5A, 50/60 Hz;
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$; Temperature code: T6
6. Cloud Point Analyzer - Model P-820LT-1400, input 120 Vac, 5A or 240 Vac, 2.5A, 50/60 Hz;
 $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$; Temperature code: T6



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7. Pour Point Analyzer - Model P-840LT-1400, input 120 Vac, 5A or 240 Vac, 2.5A, 50/60 Hz;
 $0^{\circ}\text{C} \leq T_{\text{amb}} \leq +30^{\circ}\text{C}$; Temperature code: T6
8. Cold Properties Analyzer - Model P-860LT-1400, input 120 Vac, 5A or 240 Vac, 2.5A, 50/60 Hz;
 $0^{\circ}\text{C} \leq T_{\text{amb}} \leq +30^{\circ}\text{C}$; Temperature code: T6

Note: Salt-in-Crude Analyzer, model P-600-1400, includes internal intrinsically safe circuits from the IS barrier enclosure to the float level switches located within the solvent tanks. Analyzer models P-800LT-1400, P-820LT-1400, P-840LT-1400 and P-860LT-1400 also have internal intrinsically safe circuits located within their measurement enclosures connected to float level switches.

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 30-M1986 (Reaffirmed 2007)	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Standard C22.2 No. 142-M1987 (Reaffirmed 2009)	Process Control Equipment
ANSI/UL Standard 508 (Seventeenth Edition, Dated January 28, 1999. With revisions through and including April 4, 2010)	Industrial Control Equipment
ANSI/UL Standard 1203 (Fourth Edition, September 2006. With revisions through and including October 28, 2009)	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

The following standards were used in whole or in part as a guideline.

CAN/CSA Standard C22.2 No. 157-92 (Including update No. 2, June, 2006)	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.
ANSI/UL 60079-11 (Second Edition, dated March 9, 2007)	Electrical Apparatus for Explosive Gas Atmospheres – Part 11: 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 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.



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Markings appear on a black anodized aluminum plate with approximate dimensions of 7" by 9" and a thickness of 0.060". The nameplate is located to the lower enclosure with stainless steel screws.

All products:

- Manufacturer's name: " BARTEC ORB ", "ORB" or suitable equivalent or CSA Master Contract Number "244958", adjacent to the CSA Mark in lieu of manufacturer's 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.
- The CSA Mark with or without "C" and "US" indicators, as shown on the Certificate of Compliance.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).
- Temperature code: As specified in the PRODUCTS section, above (*optional if T5 or T6*).
- The following words: "CAUTION: KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE" or equivalent.

Model P-600-1400 only:

- The words: "IS circuits ONLY" (*on junction box covers and IS barrier enclosure*).

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".

Notes :

Products certified under Class C225803, C225883 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
80198079	2024-04-12	Update cCSAus report # 2147122, Model P Series Analyzers to add an alternate display and update the list of control drawings.
2594390	Mar 28, 2013,	Update to Report 2147122 to add models P-840LT-1400, Pour Point Analyzer, and P-860LT-1400, Cold Properties Analyzer.
2563870	Nov 21, 2012	Update to Report 2147122 to add alternate electrical assembly & conduit parts to models P-500-, P-600-, P-700-, P-800LT- & P-820LT-1400. Alternate solvent tank configuration was added for P-600-1400 & a 240V option to P-800LT- & P-820LT-1400.
2534403	Aug 31, 2012	Update to Report 2147122 to add new model P-600-1400, Salt-in-Crude Analyzer.
2500675	May 8, 2012	(EDM214: 1of2: CSA) Possible update of report 2147122 to include new model P-600- 1400 for class I, Div I, Group BCD.
2502798	Mar 6, 2012	Update to Report 2147122 to document updates to drawings P-500-1400, P-700-1400 and P800LT & P820LT-1400. Also, changes were made to correct findings documented in FIR 247684-111222.
2406577	May 25, 2011	Update of Report 2147122 to include alternate CSA certified solenoid valve.
2371085	Feb 18, 2011	Update to report 2147122 to include model P800LT-1400 Freeze Point Analyzer and model P820LT-1400 Cloud Point Analyzer for Class I, Zone 1 Ex d IIB for Canadian and US requirements
2333784	Nov 3, 2010	Update to report 2147122 to evaluate new model P-500-1400 and minor drawing changes
2147122	Aug 19, 2009	Evaluation of P-700-1400 as Explosionproof for CL I, Div 1, Grps BCD