



The Revolution
Begins Here

vbSeries® Portable Instrument Hazardous Area Certification Class I, Division 2



Class I, Division 2, Groups A, B, C, D certification has been granted by the Canadian Standards Association for CSA labeled variants of the following instrument models:

- vb5™ Data Collector
- vb6™ Data Collector
- vb7™ Data Collector and Analyzer
- vb8™ Data Collector and Analyzer
- vbBalancer™ Imbalance Correction Instrument
- vbBalancer+™ Imbalance Correction Instrument

See attached certificate for details.

Notes

1. **ONLY** instruments bearing the CSA logo and Hazardous Area information are certified. vbSeries instruments without the CSA logo are **NOT CERTIFIED**.
2. The use of non-certified sensors and/or accessories **WILL VOID** instrument Class I, Division 2 CSA certification.

The Revolution



Certificate of Compliance

Certificate: 1951478

Master Contract: 231796

Project: 1951478

Date Issued: 2008/05/06

Issued to: **Commtest Instrumens Ltd**
28 B Moorhouse Ave
Christchurch, 8001
New Zealand
Attention: Mr. Nigel Leigh

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Ron Wildish

Authorized by: Patricia Pasemko, Operations Manager

PRODUCTS

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

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

Class I, Div. 2, Groups A, B, C and D:

Model vb5 and vb6 Data Collectors, Model vb7 and vb8 Vibration Analyzers and Model vbBalancer and vbBalancer+ Dynamic Balancers; Portable, battery operated, 7.4V (one Commtest Lithium-Ion Battery Pack,

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



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P/N BATT0206); non-incendive and providing non-incendive circuits with entity parameters as listed below; when connected per Commtest drawing CIL2100VBX; Temperature Code T6; $-10\text{ }^{\circ}\text{C} \leq \text{Tamb.} \leq +50\text{ }^{\circ}\text{C}$.

CH1: $V_{\text{max}} = 30\text{V}$, $I_{\text{max}} = 25\text{ mA}$, $C_i = 2\text{ nF}$, $L_i = 0$, $V_{\text{oc}} = 26.4\text{ V}$, $I_{\text{sc}} = 47\text{ mA}$, $P_o = 310\text{ mW}$, $C_a = 0.36\text{ }\mu\text{F}$, $L_a = 28\text{ mH}$.

CH2..4: $V_{\text{max}} = 30\text{V}$, $I_{\text{max}} = 25\text{ mA}$, $C_i = 2\text{ nF}$, $L_i = 0$, $V_{\text{oc}} = 26.4\text{ V}$, $I_{\text{sc}} = 47\text{ mA}$, $P_o = 310\text{ mW}$, $C_a = 0.36\text{ }\mu\text{F}$, $L_a = 28\text{ mH}$.

TACH: $V_{\text{max}} = 30\text{V}$, $I_{\text{max}} = 100\text{ mA}$, $C_i = 2\text{ nF}$, $L_i = 0$, $V_{\text{oc}} = 5.2\text{ V}$, $I_{\text{sc}} = 53.3\text{ mA}$, $P_o = 277\text{ mW}$, $C_a = 830\text{ }\mu\text{F}$, $L_a = 22.8\text{ mH}$.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91 - General Requirements – Canadian Electrical Code, Part II

C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

ANSI/ISA 12.12.01-2007 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations



Supplement to Certificate of Compliance

Certificate: 1951478

Master Contract: 231796

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
1951478	2008/05/06	Model vb5 and vb6 Data Collectors, Model vb7 and vb8 Vibration Analyzers and Model vbBalancer and vbBalancer+ Dynamic Balancers for Class I, Div 2 locations.

History

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Supplement Notes