



Certificate of Compliance

Certificate: 70126847

Master Contract: 263009

Project: 70210677

Date Issued: 2019-01-28

Issued to: GIZMO Products Inc.
2257 County RD.4, BLDG #3
Seneca Castle, New York 14561
USA
Attention: Peter Blokhuis

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: *Anil Sodhi*
Anil Sodhi

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations -
Certified to US Standards

Ex ia IIB T4 Ga

Class I, Zone 0, AEx ia IIB T4 Ga

Class I, Div. 1 Groups C and D T4, IP65

Alarm Box IS-AB, Tank Alarm IS-T, and Drum Alarm IS-D are battery operated devices with maximum input voltage of 7.2Vdc derived from battery pack model BT-IS. The operating temperature range is $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$. The device is for use in hazardous location and provides intrinsically safe connections to relay contacts and to the simple apparatus (passive component) contacts, which are illustrated as level switches in the control drawing IS-001. The Alarm device Input Entity Parameters are: $V_{\text{max}} = 28\text{Vdc}$, $I_{\text{max}} = 100\text{mA}$, $P_{\text{max}} = 700\text{mW}$, $C_i = 0$ and $L_i = 0$.



Certificate: 70126847
Project: 70210677

Master Contract: 263009
Date Issued: 2019-01-28

Product Nomenclature:

Alarm Box (IS-AB)

I S - A B - *

Options _____
(blank if none)

Tank Alarms (IS-T)

I S - T * - * * - * * - *

H or L _____
Material _____
Length _____
Options _____
(blank if none)

Drum Alarms (IS-D)

I S - D * * - * * - * * G - *

H or L _____
Mounting _____
Material _____
Length _____
Options _____
(blank if none)

Note:

1. Environmental Conditions: Outdoor, -40°C to +60°C, 2000m max.



Certificate: 70126847
Project: 70210677

Master Contract: 263009
Date Issued: 2019-01-28

Conditions of Acceptability:

1. For safe installation of the device, refer to the Alarm Instruction document; Instructions - IS-AB, IS-T, and IS-D.
2. Only Intrinsically Safe battery package BT-IS must be used with Drum Alarm models IS-AB, IS-T and IS-D.
3. The Relay output contact terminals shall connect to a certified I.S. Barrier only.
4. The enclosure of Alarm models IS-T and IS-D are made from Aluminum. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation and use. Use care not to cause impacts or scrapes with other metal objects during installation.
5. Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure of models IS-T, IS-D may store an ignition capable of an electrostatic charge. Therefore, the user/installer shall implement provisions to prevent the buildup of electrostatic charge, i.e. locate the equipment where a charge-generating mechanism is unlikely to be present, and clean with a water-moistened cloth.
6. Simple Apparatus (passive component) is permitted for connection with models IS-AB, IS-T or IS-D, provided that the end user must comply with the following conditions:
 - the Simple Apparatus switches are used within their ratings
 - the Entity parameters of Drum Alarm device are regarded and correctly applied when connecting the Simple Apparatus switch.
 - the Simple Apparatus switch used with any Drum Alarm models IS-AB, IS-T or IS-D shall not form or considered part of the Drum Alarm device.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-10	General Requirements - Canadian Electrical Code, Part II
CAN/CSA-C22.2 No. 60079-0:15	Explosive atmospheres - Part 0: Equipment - General requirements
CAN/CSA-C22.2 No. 60079-11:14	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”
ISANSI/ISA-60079-0 (12.00.01)-2013	Explosive atmospheres - Part 0: Equipment - General requirements
ANSI/ISA 60079-11 (12.02.01)-2014	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”
CAN/CSA C22.2 No. 61010-1-12	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ANSI/UL 61010-1, 3 rd Edition	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
CAN/CSA-C22.2 No. 60529:16	Degrees of protection provided by enclosures (IP Code)
UL913 Ed 8.0	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations



Supplement to Certificate of Compliance

Certificate: 70126847

Master Contract: 263009

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
70210677	2019-01-28	Update CSA report 70126847 to allow the use of simple apparatus switch for providing signal to the Alarm system when used within the entity parameter specifications.
70181458	2018-04-26	Update CSA report 70126847 to include an additional standard UL-913 Ed.8.
70161199	2018-01-17	Update to CSA Report 70126847 to make the previously certified model names changed to IS-AB and IS-T, to include a variation model IS-D, to make minor changes to the buzzer circuit to improve performance, to give IP65 rating to models IS-T and IS-D, and to update descriptive documents.
70126847	2017-09-12	Original cCSAus certification for Drum Alarm Models AB-IS and T-IS as Intrinsically Safe for Ex ia IIB T4 Ga and Class I Div.1 with Ta max = 60°C with battery model BT-IS.