



# Certificate of Compliance

**Certificate:** 70126847

**Master Contract:** 263009

**Project:** 70161199

**Date Issued:** 2018-01-17

**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:** *Hossein Saleh*  
Hossein Saleh

## 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  $-40^{\circ}\text{C} \leq T_{amb} \leq +60^{\circ}\text{C}$ . The device is for use in hazardous location and provides intrinsically safe connections to relay contacts as per control drawing IS-001. The Entity Parameters are:  $V_{max} = 28\text{Vdc}$ ,  $I_{max} = 100\text{mA}$ ,  $P_{max} = 700\text{mW}$ ,  $C_i = 0$  and  $L_i = 0$ .



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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.

**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 and use.
5. Under certain extreme circumstances, exposed plastic and unearthened 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.



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**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"
ANSI/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 <sup>rd</sup> Ed	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)



## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
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.