



# Certificate of Compliance

Certificate: 70126847

Master Contract: 263009

Project: 70126847

Date Issued: 2017-09-12

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 U.S. STANDARDS

**Ex ia IIB T4 Ga:**

**Class I, Zone 0, AEx ia IIB T4 Ga:**

**Class I, Div. 1 Groups C and D T4: IP6X**

Drum Alarm, models AB-IS and T-IS is a battery operated device 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 as per control drawing **IS-001**. The 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  $L_i = 0$ .

## Note:

1. Intrinsically Safe battery package **BT-IS** must ONLY be used with Drum Alarm models T-IS and AB-IS.
2. Environmental Conditions: Outdoor,  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ , 2000m max.
3. For safe installation of the device, refer to the Alarm Instruction document; Instructions – AB-IS and T-IS.
4. The Relay output contact terminals shall connect to a certified I.S. Barrier only.
5. Drum Alarm model AB-IS shall be marked as IP65
6. Drum Alarm model T-IS shall be marked as IP6X



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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>  |
|----------------|-------------|---|
| 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. |