



# Certificate of Compliance

**Certificate:** 1839123 (097594\_0\_000)

**Master Contract:** 160220

**Project:** 70055568

**Date Issued:** 2016-09-19

**Issued to:** Draeger Safety AG & Co. KGaA  
Revalstrasse 1  
Luebeck, 23560  
GERMANY  
**Attention:** Thomas Treptow

*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:** Zahra Amini  
Zahra Amini

## **PRODUCTS**

CLASS - C482801 - SIGNAL APPLIANCES --Combustible Gas Detection Instruments--For Hazardous Locations  
CLASS - C482881 - SIGNAL APPLIANCES--Combustible Gas Detection Instruments--For Hazardous Location--  
Certified to U.S. Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G;  
Class I, Zone 1, Group IIB + H2  
Type 4X

Model IDS0101, stationary, input rated 9 to 30 V dc, 9 W, output rated 4-20 mA. May be used with splash guard, flow cell and bump test adapter. Temperature code of T6 for -40°C to + 40°C and T4 for -40°C to + 80°C. Methane, propane and ethylene versions performance tested.

Model IDS0102, stationary, input rated 9 to 30 V dc, 9 W, output rated 4-20 mA. May be used with splash guard, flow cell and bump test adapter. Temperature code of T6 for -40°C to + 40°C and T4 for -40°C to + 80°C. Propane and methane versions performance tested.

CLASS 4828 02 - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations



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**CLASS 4828 82 - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations - CERTIFIED TO U.S. REQUIREMENTS**

Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G;  
Class I, Zone 1, Group IIB + H2  
Type 4X

Model IDS0105, stationary, input rated 9 to 30 V dc, 9 W, output rated 4-20 mA. May be used with splash guard, flow cell and bump test adapter. Temperature code of T6 for -40°C to + 40°C and T4 for -40°C to + 80°C.

**WARNING:** “The CSA certification does not cover the gas detection performance in Class II environments. The sensor may become clogged and may not detect gas. In this event, the detector will signal a beam block fault.”

**APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-M91	General Requirements – Canadian Electrical Code, Part II
C22.2 No. 25-1966	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CSA Std C22.2 No.30-M1986	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA Std C22.2 No.152-M1984	Combustible Gas Detection Instruments
UL50, Eleventh Edition, UL 1203 (4th Ed.)	Enclosures for Electrical Equipment Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
IEC E60079-0:04	Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements
IEC E60079-1:05	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof Enclosures "d"
CENELEC EN 60079-0:06	Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements
CENELEC EN60079-1:04	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof Enclosures "d"
ISA-12-13.01-2003	Performance Requirements for Combustible Gas Detectors
CAN/CSA-C22.2 No. 61010-1-12	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ANSI/ISA-61010-1 3rd Edition	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements - Third Edition



## *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>
70055568	2016-09-19	Updating the report 1839123 to replace Std. C22.2 No 142-M1987, UL Std. No 508 by CAN/CSA-C22.2 NO. 61010-1-12 Ed 3rd, ANSI/ISA-61010-1 3rd Edition, and update some drawings
2495408	2012-12-28	Update to report 1839123 to performance test Models IDS 0101 and IDS 0102 to ISA Std. 12.13.01-2003.
1839123	2007-08-24	Stationary Gas Detectors Models IDS 0101, IDS 0102 and IDS 0105