



Certificate of Compliance

Certificate: 1839123

Master Contract: 160220

Project: 2495408

Date Issued: December 28, 2012

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.



Glenn Black

Issued by: Glenn Black

PRODUCTS

CLASS 4828 82 - SIGNAL APPLIANCES-Toxic Gas Detection Instruments - For Hazardous Locations. Certified to U.S. Standards

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

CLASS 4828 81 - SIGNAL APPLIANCES-Combustible Gas Detection Instruments - For Hazardous Location-Certified to U.S. Standards

CLASS 4828 01 - SIGNAL APPLIANCES - - Combustible Gas Detection Instruments-For Hazardous Locations

CLASS 4828 01

CLASS 4828 81

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



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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

CLASS 4828 82

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.

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
CSA Std C22.2 No.142-M1987	Process Control Equipment
UL50, Eleventh Edition,	Enclosures for Electrical Equipment
UL508, Seventeenth Edition,	Industrial Control Equipment
UL 1203 (4th Ed.) Use in Hazardous (Classified) Locations	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
IEC E60079-0:04 Requirements	Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements



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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

MARKINGS

- CSA monogram with the C US indicator;
- Company name;
- Model number;
- Electrical rating;
- Hazardous locations designation;
- Temperature Code;
- Special purpose enclosure designation,"TYPE 4X";
- Maximum and minimum ambient;
- Caution re: Do not open cover while circuits are alive;
- The words "Leads factory sealed";
- The wording"C22.2 no. 152" for Models IDS 0101 and IDS 0102;
- Warning: Read manual before operating



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

Project	Date	Description
2495408	December 28, 2012	Update to report 1839123 to performance test Models IDS 0101 and IDS 0102 to ISA Std. 12.13.01-2003.
1839123	August 24, 2007	Stationary Gas Detectors Models IDS 0101, IDS 0102 and IDS 0105