



# Certificate of Compliance

**Certificate:** 2441183

**Master Contract:** 167534

**Project:** 2557698

**Date Issued:** September 27, 2012

**Issued to:** Mine Safety Appliances Company  
North American Division  
1000 Cranberry Woods Dr  
Cranberry Township, PA 16066-5296  
USA  
Attention: Johnny Lee

*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.*



*Don Verbeem*

**Issued by:** Don Verbeem

## **PRODUCTS**

- CLASS 4828 01** - SIGNAL APPLIANCES - - Combustible Gas Detection Instruments-For Hazardous Locations
- CLASS 4828 81** - SIGNAL APPLIANCES-Combustible Gas Detection Instruments - For Hazardous Location-Certified to U.S. Standards
- CLASS 2252 83** - PROCESS CONTROL EQUIPMENT - Certified to US Standards
- CLASS 4828 82** - SIGNAL APPLIANCES-Toxic Gas Detection Instruments - For Hazardous Locations. Certified to U.S. Standards
- CLASS 2252 03** - PROCESS CONTROL EQUIPMENT
- CLASS 4828 02** - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations

**CLASS 2252 03-** PROCESS CONTROL EQUIPMENT

**CLASS 2252 83** - PROCESS CONTROL EQUIPMENT – Certified to US Standards

Series GasGard XL Controller, input 24Vdc, 4A or 110-230Vac, 50/60Hz, 2.5A (100W); relay contacts 5/6A @ 240V dc (resistive). Ambient temperature: -10 °C to + 50 °C. Installation category II, Pollution degree 2.



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

**CLASS 4828 81** - SIGNAL APPLIANCES - Combustible Gas Detection Instruments - For Hazardous Locations– Certified to US Standards

Series GasGard XL Controller, 8 channel (ordinary locations only), input voltage 24Vdc, 4A or 110-230Vac, 50/60Hz, 2.5A (100W); relay contacts 5/6A @ 240V dc (resistive). Ambient temperature: -10 °C to + 50 °C. Installation category II, Pollution degree 2. Signal input must be connected to CSA certified 4-20 mA performance tested combustible transmitters.

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

**CLASS 4828 82** - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations– Certified to US Standards

Series GasGard XL Controller, 8 channel (ordinary locations only), input voltage 24Vdc, 4A or 110-230Vac, 50/60Hz, 2.5A (100W); relay contacts 5/6A @ 240V dc (resistive). Ambient temperature: -10 °C to + 50 °C. Installation category II, Pollution degree 2. Signal input must be connected to 4-20 mA transmitters.

### **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements

UL Std. No. 61010-1 (2nd Edition) - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

CSA Std C22.2 No.152-M1984 - Combustible Gas Detection Instruments

ANSI/ISA – 12.13.01-2000 - Performance requirements for combustible gas detectors

### **MARKINGS**

The submittor's name.

Model designation.

Electrical ratings: Input and output.

Date of manufacture.



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Temperature rating.

The CSA Monogram with C/US subscript:

The words "C22.2 No.152 for combustible gas only"

Field connection identification.

AC terminals.

Fuse(s) replacement value.

The IEC 348 symbol indicating "Attention: Consult Accompanying Documents".

The IEC 417 Symbols 5007-a and 5008-a ("I" and "O"), or equivalent, on or adjacent to the principal on/off switch/circuit breaker.

For relays RLY1- RLY8:

The following wordings shall appear in the Manual and on a label physically located on the front of the equipment in a location visible at all times: "DISCONNECT THE POWER BEFORE ACCESS"