FM Approvals
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CERTIFICATE OF COMPLIANCE

ELECTRICAL EQUIPMENT
PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

GAS DETECTION CONTROL UNIT, Fixed

Stationary Single/Dual Channel 4-20mA Gas Detector Control Unit for installation in Ordinary Locations in Canada. It has an operating temperature range of -10°C to +50°C and a humidity operating range of 0 to 90% RH. The apparatus runs on an operating voltage of 24VDC, maximum power 4W, or an operating voltage of 230VAC, maximum power 15VA. The apparatus complies with CSA C22.2 No. 142 and CSA C22.2 No. 152.

A-9000-MODULE-a-b-c-d-e-f-g-h, 9010/9020 Controller

a = Enclosure Types R (Rack Mount), P (General Purpose Plastic), MS, MD, XS (Single Board), XD (Dual board), SS (Stainless Steel, 5 board), SD (Stainless Steel, 10 board).
b = Any alpha numeric code that represents the Number of 9020 2-wire boards not to exceed ten boards total.
c = Any alpha numeric code that represents the Number of 9010 2-wire boards not to exceed ten boards total.
d = Any alpha numeric code that represents the Number of 9020 3-wire boards not to exceed ten boards total.
e = Any alpha numeric code that represents the Number of 9020 2-wire boards not to exceed ten boards total.
f = Power Supply Voltage 1 (120 Vac), (2 (240 Vac), 3 (24 Vdc).
g = TVL STEL and TWA Functions 0 (None), 1 (Yes).
h = Custom: 0 (None), OK = (Customer specific feature i.e. tagging, accessories, installation, documentation or similar).

Equipment Ratings:

Process Control Equipment meeting basic electrical, mechanical, and fire protection requirements.
Performance Tested Gas Detection Equipment.

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FM Approved for:

Mine Safety Appliance Co
1000 Cranberry Woods Drive, Cranberry Township, PA 16066

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

C22.2 No 152	1984
C22.2 No 142	1987

Original Project ID: 3032290 Approval Granted: February 4, 2009

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
090414	July 23, 2009		
090805	September 24, 2009		

FM Approvals LLC

J. E. Marquedant
Group Manager, Electrical

24 September 2009
Date