



FM Approvals
1151 Boston Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

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CERTIFICATE OF COMPLIANCE

ELECTRICAL EQUIPMENT

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 the United States. It has an operating temperature range of -10°C to $+50^{\circ}\text{C}$ 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 FM 6340 and ISA 12.13.01.

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.

FM Approved for:

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



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

FM3810	2005
FM6340	2002
ISA 92.0.01	1998

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. Marquardt
Group Manager, Electrical

24 September 2009
Date