



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

COMBUSTIBLE GAS DETECTORS, Fixed

Stationary single channel 4-20mA combustible gas detector. Standalone infrared Sensor/Transmitter. PrimaX IR is Explosionproof for Class I, Division 1, Groups A, B, C and D, T4A Ta = -50°C to +75°C; and Dust-ignitionproof for Class II, Division 1, Groups E, F and G, T4A Ta = -50°C to +75°C Hazardous Locations, indoor and outdoor, Type 4X. The PrimaX IR includes a male ¼ NPT connection for field installation. The PrimaX IR provides a 4-20mA measurement signal with HART communication. The electrical ratings are 18 - 32 VDC, 6 watts maximum. The operating temperature range of the PrimaX IR is -50°C to +75°C. The PrimaX IR monitors 0-100% LEL methane gas-in-air atmospheres or 0-100% LEL propane gas-in-air atmospheres. In addition, the apparatus complies with C22.2 No. 152 Combustible Gas Detection Instruments.

The following accessories may be used with the PrimaX IR Gas Detector: Aluminum junction box kit, p/n 10117607; Stainless steel junction box kit, p/n 10124331; Calibration cover/bump cap, p/n 10122228; Flow cap, p/n 10113100; Environmental guard, p/n 10113663; Calibration Cap 10111874.

Specifications - The manufacturer's specifications are as follows:

Operating Temperature:	-50°C to +75°C
Storage Temperature:	-40°C to +80°C
Relative Humidity:	15 to 95% RH
Supply Parameters:	18-32 Vdc, 24 Vdc (Nominal), 6 watts maximum
Measurement Signal:	4-20mA
Calibration:	Calibration Cap or HART

A-PRIMAXIR-abc, Gas Monitor

a = Gas type: 14 or 15
b = NPT thread
c = -50°C to +75°C

FM Approved for:

Mine Safety Appliance Co
Cranberry Twp, PA United States

To assure that this Approval is still valid, please refer to www.approvalguide.com
FM Approvals HLC 6/07 3036837C



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

CAN/CSA C22.2 No. 0.4	1982 (R2009)
CAN/CSA C22.2 No. 0.5	1982 (R2008)
CAN/CSA C22.2 No. 25	1966 (R2009)
CAN/CSA C22.2 No. 30	1988 (R2012)
CAN/CSA C22.2 No. 0-M91	2006
CSA C22.2 No. 152	M1984 (R2006)
CSA C22.2 No. 1010.1	2004

Original Project ID: 3036837C

Approval Granted: June 28, 2013

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC


 J.E. Marquedant
 Group Manager, Electrical

28 June 2013
 Date