



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

OPEN PATH GAS MONITORS, FIXED

Stationary Single Channel 4-20 mA Open Path Combustible Gas Detector. Stand alone Transmitter (source) and Receiver (detector). The SafEye Quasar 900 monitors 0-5 LEL.m methane, ethane, propane, butane or ethylene, gas-in-air atmospheres for distances of 7 – 20 meters, 15 – 40 meters, 35 – 100 meters and 80 – 200 meters. The SafEye Quasar 900 provides field selectable factory calibration for methane, propane and ethylene. The SafEye Quasar 900 detectors are explosionproof for installation in Class I, Division 1, Groups B, C and D, suitable for Class II, Division 1, Groups E, F and G; suitable for Class III, Division 1; T6 -50°C ≤ Ta ≤ 65°C hazardous (classified) indoor/outdoor locations IP66/68, NEMA Type 6P, with intrinsically safe output for HART and RS485 Communication in Class I, Division 1, Groups B, C and D locations. The transmitter and receiver are constructed of 316L stainless steel and have an operating temperature range of -50°C to +65°C. The transmitter and receiver each have one tri-color LED for visual status indication; the operating voltage range is 18-32 V dc (24 V dc nominal), 8W maximum; the receiver has a current output range of 0 - 21 mA. Accessories with the following part numbers are Approved to be used with the SafEye Quasar 900: 888270 (Tilt Mount Kit) and 888210 (Telescope Kit); the following accessory is Approved for installation and maintenance and is not FM Approved for hazardous locations: 799810 (Handheld Unit).

QR-F-11a, SafEye Quasar 900 Open Path Gas Receiver

XP-AIS/I/1/BCD/ T6 -50°C ≤ Ta ≤ 65°C; DIP/II,III/1/EFG/T6 -50°C ≤ Ta ≤ 65°C; Type 6P/ IP66, IP68
U_o ≤ 5.0 Vdc, I_o ≤ 62mA, P_o < 105mW, L_o = 0mH, C_o = 0nF
a = Conduit Entry Type: 1 or 2.

QT-F-a1b, SafEye Quasar 900 Open Path Gas Transmitter

XP-AIS/I/1/BCD/ T6 -50°C ≤ Ta ≤ 65°C; DIP/II,III/1/EFG/T6 -50°C ≤ Ta ≤ 65°C ; Type 6P/ IP66, IP68
U_o ≤ 5.0 Vdc, I_o ≤ 62mA, P_o < 105mW, L_o = 0mH, C_o = 0nF
a = Range: 1, 2, 3 or 4.
b = Conduit Entry Type: 1 or 2.

Specifications – The manufacturer’s specifications are as follows:

Range	0 – 5 LEL.m
Operating Temperature	-50°C to +65°C
Storage Temperature	-50°C to +65°C
Supply Voltage	18 – 32 Vdc
Measurement Signal	4 – 20 mA

FM Approved for:

Spectrex Inc.
218 Little Falls Road, Cedar Grove, NJ 07009
USA

To assure that this Approval is still valid, please refer to www.approvalguide.com



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

Class 3600	2011
Class 3610	2010
Class 3615	2006
Class 3616	2011
Class 3810	2005
Class 6325	2005
ANSI/NEMA 250	1991
ANSI/IEC 60529	2004
ANSI/ISA 61010-1	2004

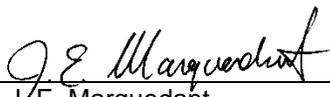
Original Project ID: 3043518

Approval Granted: January 18, 2013

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
130311	May 14, 2013		
3049667	October 8, 2013		

FM Approvals LLC



J.E. Marquedant
Group Manager, Electrical

8 October 2013

Date

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