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FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Stationary Gas Detection System. SENTRY system consists of 2, 4 and 8 channel controller Models 5000-02, 5000-04 and 5000-08 for connection to remote digital combustible gas sensor/transmitter Model 5100-02 and 5100-02IT. The system monitors 0-99% LFL of combustible gas-in-air atmospheres. The Model 5100-02 provides a 4-20mA measurement signal, and relay contacts; Trouble, Low and High Alarms. The Model 5100-02IT provides an eight-digit measurement display with magnetically coupled control functions, a 4-20mA measurement signal, and a RS485 measurement signal. The optional Remote Display (model 5394-51) connects to the 5100-02IT via the 4-20mA measurement signal and provides an eight-digit measurement display with magnetically coupled control functions, a 4-20mA measurement signal, and relay contacts; Trouble, Low and High Alarms. The controller is for use in indoor or optional outdoor (NEMA 4X) nonhazardous locations, the combustible gas sensor/ transmitter is for use in Class I, Division 1, Groups B, C and D hazardous (classified) indoor locations. The controller is panel mounted and can be operated from 120 Vrms, 220 Vrms, 50/60 Hz or 12 V dc. The controller provides the following standard functions: 2, 4 or 8 channel measurement, displays, keypad and common High/Low Trouble alarm contacts. The following are FM Approved controller options: Model 5380-00 Controller 19 in. rack mounting accessory, Model 5383-00 Controller NEMA 4X enclosure, Model 5392-00 individual 8 channel high and low alarm contacts, and Model 5387-00 Serial RS-232 printer port software. Included in the Approval are: conventional and multiplexed sensor/transmitter installation configurations, normal and global calibration modes, user editable channel tag function, combustible gas calibration delivery system Model 1200-26 with gas cylinder; for methane (Model 1290-02) or hydrogen (Model 1250-01). A combustible gas calibration delivery fitting Model 5360-00, calibration adaptors Models 5358-00 and 5358-01. Operating temperatures are 0° to 50°C (32° to 122°F) for the controller, -40° to 80°C (-40° to 176°F) for the combustible gas sensor/transmitter. Approval covers use of the instrument when the instrument calibration is performed using the gas to be monitored and when the higher of the two alarm set points is preset within 10% LFL of the monitored calibration gas concentration.

Stationary Gas Detection System. SENTRY system consists of 2, 4 and 8 channel controller Models 5000-02, -04 and -08 for connection to remote digital hydrogen sulfide gas sensor/transmitter Model 5100-05. The system monitors 0-100 ppm hydrogen sulfide gas-in-air. The controller is for use in indoor or optional outdoor (NEMA 4X) nonhazardous locations and the hydrogen sulfide gas sensor/transmitter is for use in nonhazardous indoor locations. The controller is panel mounted and can be operated from 120 Vrms, 220 Vrms, 50/60 Hz or 12 V dc. The controller provides the following standard functions: 2, 4 or 8 channel measurement, displays, keypad and common High/Low Trouble alarm contacts. The following are FM Approved controller options: Model 5380-00 Controller 19 in. rack mounting accessory, Model 5383-00 Controller NEMA 4X enclosure, Model 5392-00 Individual 8 channel high and low alarm contacts, and Model 5387-00 Serial RS-232 printer port software. Included in the Approval are: conventional and multiplexed sensor/transmitter installation configurations, normal and global calibration modes, user adjustable full scale function for hydrogen sulfide channels up to 100 ppm, user editable channel tag function, calibration gas fitting Model 5360-00, calibration adaptors Models 5358-00 and 5358-01. Operating temperatures are

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0° to 50°C (32° to 122°F) for the controller and -10° to 50°C (14° to 122°F) for the hydrogen sulfide sensor/transmitter.

Stationary Gas Detection System. SENTRY system consists of 2, 4 and 8 channel controller Models 5000-02, -04 and -08 for connection to remote digital hydrogen sulfide gas sensor/transmitter Model 5100-05-IT. The system monitors 0-100 ppm hydrogen sulfide gas-in-air. The controller is for use in indoor or optional outdoor (NEMA 4X) nonhazardous locations and the hydrogen sulfide gas sensor/transmitter is for use in Class I, Division 1, Groups B, C and D Hazardous (Classified) Locations. The controller is panel mounted and can be operated from 120 Vrms, 220 Vrms, 50/60 Hz or 12 V dc. The controller provides the following standard functions: 2, 4 or 8 channel measurement, displays, keypad and common High/Low Trouble alarm contacts. The following are FM Approved controller options: Model 5380-00 Controller 19 in. rack mounting accessory, Model 5383-00 Controller NEMA 4X enclosure, Model 5392-00 Individual 8 channel high and low alarm contacts, and Model 5387-00 Serial RS-232 printer port software. Included in the Approval are: conventional and multiplexed sensor/transmitter installation configurations, normal and global calibration modes, user editable channel tag function, calibration adaptors Models 5358-00 and 5358-01. Operating temperatures are 0° to 50°C (32° to 122°F) for the controller and -20° to 50°C (-4° to 122°F) for the hydrogen sulfide sensor/transmitter.

FM Approved for:

Sierra Monitor Corporation
Milpitas, CA USA

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

Class 3600	2011
Class 3615	2006
Class 3810	2005
Class 6310	2001
Class 6341(Draft)	2002
ISA-92.0.02, Part I	1998

Original Project ID: 2V4A4.AX

Approval Granted: April 21, 1992

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
0Z3A7.AX	December 1, 1995		
3025432	January 16, 2006		
3034435	May 29, 2009		
3047243	September 18, 2014		

FM Approvals LLC



J.E. Marquedant
Manager, Electrical Systems

18 September 2014

Date

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