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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:

COMBUSTIBLE GAS DETECTORS, Fixed

Stationary Single Channel 4-20mA Combustible Gas Detector. Stand Alone Sensor/Transmitter 5100-28-IT Infrared Combustible Gas Detector and Remote Display option are explosionproof for installation in Class I, Division 1, Groups C and D, T6 Ta = +60°C hazardous (classified) indoor locations. Model 5100-28-IT Sensor/Transmitter monitors 0-100% LEL methane gas-in-air atmospheres. The instrument 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 optional Remote Display 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 transmitter is Approved to interface to the Sierra Monitor Model 5000 Gas detection control unit. The transmitter assembly is constructed of aluminum and includes IR processor module. The sensor assembly is constructed of aluminum and consists of the IR sensor. The sensor mounts integrally to the transmitter housing. The sensor is protected with flame arrester shield. The optional Remote Display is constructed of aluminum and includes IR processor module. The operating temperature range of the apparatus is -20°C to +60°C and operating voltage is 24 Vdc (nominal), 3 watts nominal 5 watts maximum power, relay contact ratings are 0.25A at 110Vdc/ac. In addition, the apparatus complies with ANSI/ISA-12.13.01-2000 Performance Requirements for Combustible Gas Detectors. The following accessories are Approved for use with the 5100-28-IT Sensor/Transmitter: Included in the Approval are: combustible gas calibration delivery system Model 1200-26 with methane gas cylinder Model 1290-02 and delivery fitting Model 5360-00, calibration adaptors Models 5358-00 and 5358-01; The calibrator 1250-01 with regulator 1256-01 and cylinder 1260-02. This Approval covers use of the instruments when calibration is performed using the gas to be monitored and the alarm set points are preset within 10% of the calibration gas concentration.

FM Approved for:
Sierra Monitor Corp
Milpitas, CA United States



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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 6320	2001
Class 3810	2005
ANSI/ISA-12.13.01	2000

Original Project ID: 0003021050

Approval Granted: July 30, 2004

Subsequent Revision Reports / Date Approval Amended

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FM Approvals LLC

J.E. Marquedant
Manager, Electrical Systems

30 July 2014

Date