



MEDICAL GAS AREA ALARM



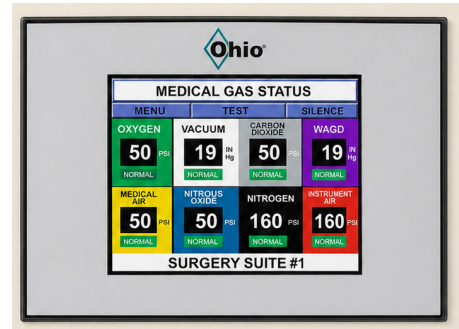
MEDICAL GAS AREA ALARM

Ohio Medical's Color LCD Touch Screen Area Alarm offers quick and easy set-up as well as crystal clear monitoring of medical gas conditions. A user defined password leads the alarm operator through all necessary set-up procedures. The alarm seamlessly auto detects the gases and displays them with no programming required via color LCD touch screen to ensure sensor locations are properly identified during installation and maintenance. Sensor locations and gas settings may be adjusted or reconfigured - depending on the application.



FEATURES AND BENEFITS

- **Color LCD Touch Screen**
 - Crystal clear identification of gases and alarm conditions via a vivid 5.7" color LCD touch screen
 - Screen brightness is field adjustable for enhanced visibility in all lighting conditions
 - Highly reliable - pressure activated touch-screen for use with or without medical gloves
- **UL and CSA Certified**
- **Meets NFPA® 99 Health Care Facilities Code**
- **Connection to Building Management Systems (BMS) via Dry Contacts**
 - Dry contacts identify high/low alarm conditions for gases
- **User Defined, Password Protected Options**
 - English or Spanish
 - NFPA or ISO color options
 - PSI / KpA or inHg / mmHg
- **Alarm Conditions Clearly Identified via Audible and LED Visual Indicators**
- **Practical Naming of Zone Locations**
 - Up to 20 Characters may be Entered for Clear and Logical Sensor "Zone Naming" and Identification
- **Box and Sensor Materials Protect Electronics from Adverse Environmental Conditions as well as Electrical Interference**



INSTALLATION AND MAINTENANCE FEATURES

- **Easy Set-up**
 - No push buttons or hidden toggle switches to mess with, allowing for quick and easy set-up via the front touch screen panel
 - Enhanced security – individual set-up and maintenance screen passwords protect user/installer settings
- **Field Programmable Set-up Screen**
 - Up to 8 gases may be displayed for a 1 zone alarm
 - Up to 4 gases per zone may be displayed for a 2 zone alarm
- **Adjustable Gas Pressure and Vacuum Settings**
 - Alarm and sensors are factory set/programmed to meet, NFPA medical gas, pressure and vacuum requirements
 - Customizable and field adjustable nominal gas set points
 - Customizable and field adjustable high and low alarm set points
 - Auto reset button provided for instant programming to NFPA medical gas standards for normal, high/low trending, and high/low alarm points
- **Auto Detection of Gas Sensor Locations Available via a Touch Screen Button**
 - Auto sensor detection button may be used for verification of sensor display locations - during installation or maintenance procedures
 - Sensor locations may be manually selectable where required - display location on the screen. example Oxy, Air, Vac or Vac Oxy Air
- **Self Diagnostic Error Messages**
 - Auto detects sensor MISMATCH or DISCONNECT conditions
- **DISS, Gas Specific Sensors are Factory Calibrated for Worry Free Installation**

SPECIFICATIONS

- **Alarm Box and Panel**

- Listed to UL 1069 (Hospital Signaling and Nurse Call Equipment) and CSA C22.2 No. 2015-12 (Signal Equipment).
- Product complies with NFPA 99 and is manufactured in an ISO 9001 and ISO 13485 environment.
- Alarm shall incorporate a Liquid Crystal Display (LCD) to continuously indicate pressure or vacuum levels.
- Alarm shall be able to restart after a power loss of 10 seconds.

- **Field Programmable Set-up**

- Alarm shall be adjustable to display NFPA or ISO colors as well as gas settings including: PSI / KpA or inHg / mmHg.
- Alarm shall display English or Spanish Instructions.

- **Alarm Indicators**

- Alarm conditions shall be identified via audible alarms and visual LED indicators.
- Visual LED indicators shall be provided for each gas service: green for NORMAL, red for HIGH and LOW alarms, and yellow for TREND HIGH or TREND LOW conditions.
- Visual alarm signals shall flash even if the audible alarm is silenced and shall remain in the alarm state until the condition that initiated the alarm is corrected. Once corrected, the visual signal shall automatically cancel.
- Audible alarm shall be heard at 90 dBA @ 3 ft. (NOTE: In the event of an alarm, the continuous audible alarm shall sound and any green NORMAL gas indicators shall change to HIGH or LOW red flashing alarm indicators).
- Audible alarm silence button shall be provided to silence the alarm. The audible alarm shall always remain in an alarm condition state and energized until the condition that initiated the alarm is corrected.
- An alarm TEST button shall be provided to test the working conditions of visual LED alarm indicators, audible warnings and gas set points.

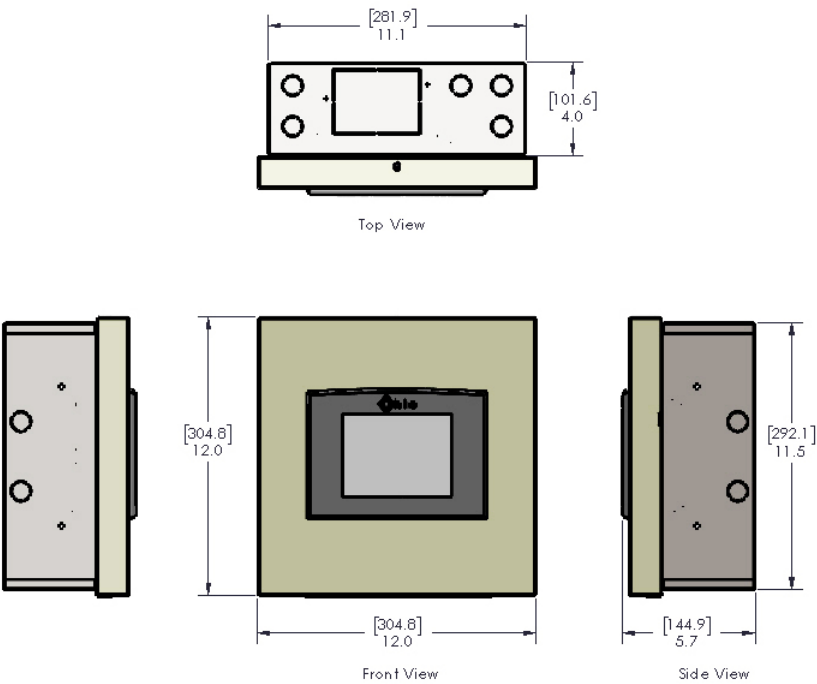
- **Digital Sensors**

- Each gas sensor shall be able to communicate a continuous digital readout of 0-250 psi (0-1,724 kPa) for pressure and 0-30" Hg (-100-0 kPa) for vacuum.
- Sensors shall have local or remote mount capabilities (NOTE: Sensors calibrated prior to shipment).
- Remote sensors shall have the capability to be located up to 5,000 ft or 1,524 m from the alarm (NOTE: Twisted pair, shielded wiring to be used in application).
- Sensors are gas specific to prevent incorrect or cross connection

TECHNICAL INFORMATION

- **Alarm Screen Details**
 - Pressure activated screen: 5.7", 320x240 pixels (QVGA), 16 bit resolution with "field adjustable" brightness for use in poor lighting. Field programmable setup buttons may be activated with or without medical type gloves.
- **Security**
 - Security codes supplied for "both" setup and maintenance screens. Product to be shipped with factory codes.
- **Multiple Zone Set-up Options**
 - Up to 8 user defined gases may be set-up to represent a single zone application and up to 4 gases per zone to represent 2 zone applications.
 - User defined zone names; up to 20 characters per zone.
- **Automatic Detection of Gas Sensors and Gas Specific Set Points**
 - Auto verification of sensor installation locations performed by pressing the AUTO-ASSIGN button. Sensor display location(s) to be represented on the color LCD screen per user set-up.
 - Nominal gas set points and high/low alarm set points are field adjustable for each gas. Gas nominal set points as well as trending alarm and alarm points default to NFPA 99 ranges/standards via a reset button.
- **Sensor Set Up Self Diagnostics**
 - Self-diagnostic error "set up" messages assist with alarm/sensor installation, and include: DISCONNECT - HMI Readout will display DISCONNECT if a sensor was programmed to be in a certain location on the HMI's screen but was not connected to the terminal strip. MISMATCH - HMI Readout will display a MISMATCH if the HMI expects recognition of a specific gas sensor type but is sensing another.
- **Construction and Connections**
 - Box/Sensor materials protect electronics from adverse conditions and electrical interference; box constructed of 18 gauge steel.
 - Pipeline/Sensor connections: K copper tube with DISS check fittings, tube = 3/8" nominal (1/2" OD).
 - Alarm equipped with dry contacts for connection to the Building Management System (BMS) to indicate gas high/low alarm conditions.
 - Gas sensors to include gas specific DISS check fittings.

PRODUCT DIMENSIONS



ORDERING INFORMATION

To configure an area alarm, gases to be monitored

EXAMPLE:

263863 , O, A, V

Area Alarm	
1 GAS	263861
2 GASES	263862
3 GASES	263863
4 GASES	263864
5 GASES	263865
6 GASES	263866
7 GASES	263867
8 GASES	263868

Gas Type (enter Gas Type after part number)

O	Oxygen
N2	Nitrogen
IA	Instrument Air
A	Air
N	Nitrous Oxide
W	WAGD
V	Vacuum
C	Carbon Dioxide

Examples:

263863,O, A, V = Area Alarm with 3 gases (Oxygen, Air, and Vacuum)

263868,O, A, V, N2, N, C, IA, W = Area Alarm using all 8 gases

NOTE: Sensors shipped separately for connection at site. Order of sensor/gas types in part number not required.