

Medical Gas Color LCD Touch Screen Area Alarm



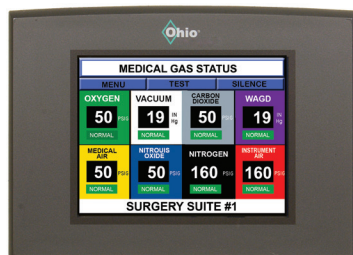
Ohio Medical's Color LCD Touch Screen Area Alarm offers quick and easy set-up as well as crystal clear monitoring of medical gas conditions. A user defined password leads the alarm operator through all necessary set-up procedures. The alarm seamlessly auto detects sensor locations and depicts their zone locations via the 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

For the User

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

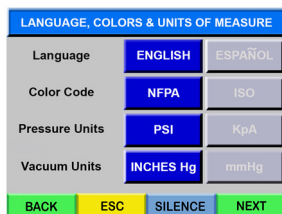
User Defined, Password Protected Options

- 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

For Installation and Maintenance

Easy Set-up

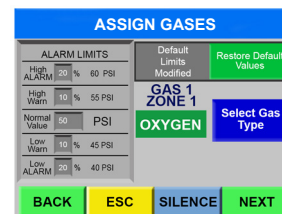
- No push buttons or hidden toggle switches to mess with, allowing for quick and easy set-up via the front touch screen panel
- Enhanced security – individual set-up and maintenance screen passwords protect user/installer settings

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 locations - during installation or maintenance procedures
- Sensor locations may be manually selectable where required

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 UL1069 (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).

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 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.

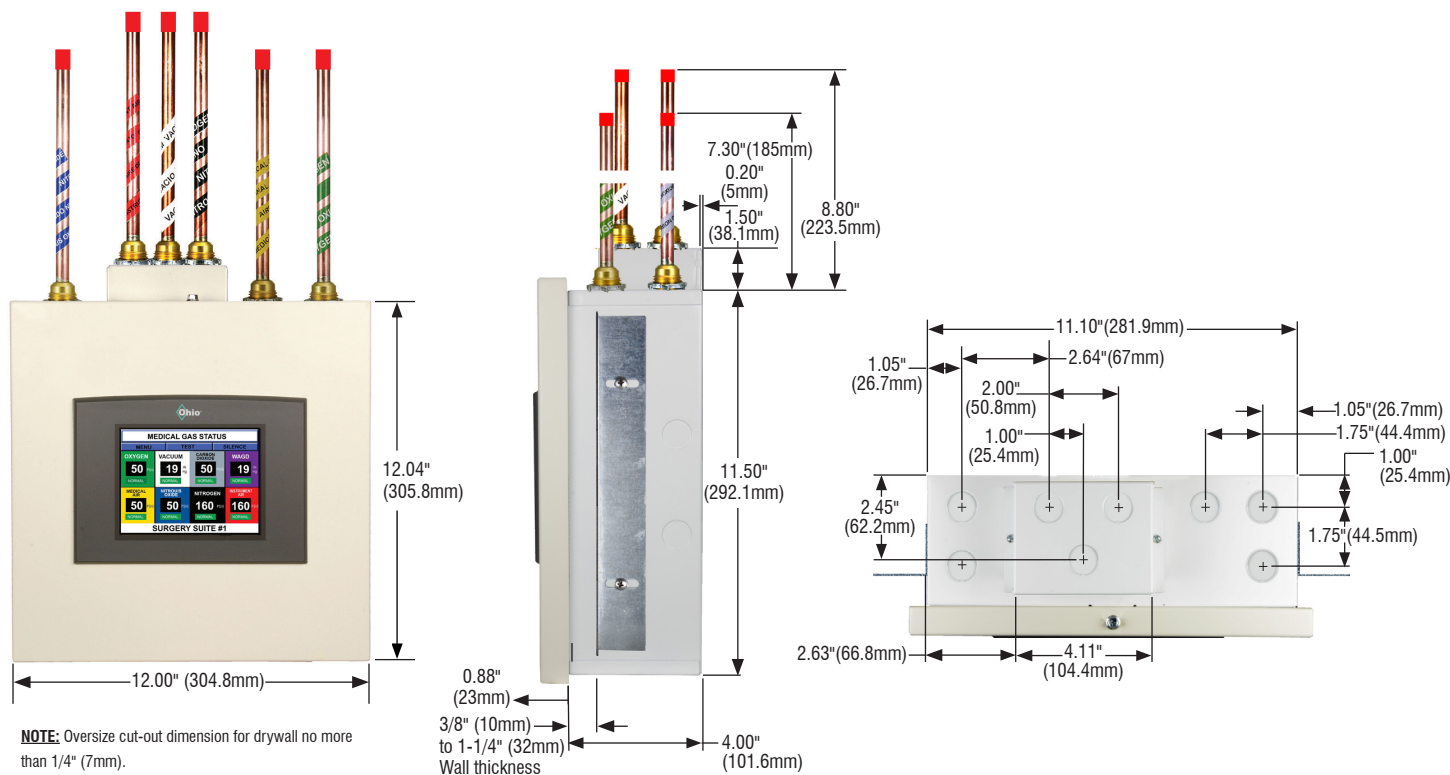
Sensor Set Up Self Diagnostics

- 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.

Dimensions in Inches (mm)



Ordering Information (Part Numbers)

To configure an area alarm, select the alarm type, then select gas type(s).

EXAMPLE:

2 6 3 8 5 3

, 0, A, V

263853,0, A, V = Remote Area Alarm with 3 gases (Oxygen, Air, Vacuum)

Local 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

Remote Area Alarm

1 Gas	263851
2 Gases	263852
3 Gases	263853
4 Gases	263854
5 Gases	263855
6 Gases	263856
7 Gases	263857
8 Gases	263858

Gas Type (enter Gas Type after part number)

O	Oxygen
N ₂	Nitrogen
IA	Instrument Air
A	Air
N	Nitrous Oxide
W	WAGD
V	Vacuum
C	Carbon Dioxide

Example:

263853,0, A, V = Remote Area Alarm with 3 gases (Oxygen, Air, and Vacuum)

Example:

263868,0, A, V, N₂, N, C, IA, W = Local Area Alarm using all 8 gases

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



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