

Submittal Data Sheet

**Project
Information**

Project Number _____ Approval _____

Features

The Tri-Tech Area Alarm Panel digitally displays gas pressure (0.5 psi increments) and monitors and displays normal and alarm conditions for up to 14 medical gases. Transducers are included and may be mounted in the alarm back box or remotely.

- ETL listed to UL-1069 and CSA-C22.2 No. 205
- Complies with NFPA 99. Made in the U.S.A.
- Self-contained unit - Designed for ease of installation and service.
- Microprocessor controlled
- Self-diagnostic (test button) and error message display for ease of maintenance.
- Audio and visual alarm indicators
- Bright easy to read L.E.D. displays – clearly visible in both day and night lighting conditions
- Constant display and monitoring of each gas
- User programmable high/low set points
- Dry contacts for remote monitoring of all alarm conditions on each gas module and on the CPU module for the entire panel
- Alarm history display of previous alarm conditions
- Easy to read – color coded gas modules
- Hinged frame with lanyards for easy accessibility
- Optional interface to the hospital TNET alarm information management system (area & master information).
- Three year PC board warranty

Specification

The alarm shall be the Tri-Tech Medical Area Alarm Panel. The panel shall be microprocessor controlled and designed to comply with NFPA 99. The panel shall be 100% digital and shall not require re-calibration. The alarm panel shall be enclosed in a steel box and shall be designed to accept an electrical input range of 120-240 volts AC – 50-60 hertz. The source voltage shall be stepped down with a self-contained transformer. The panel shall contain audible and visual alarm indicators. The audible alarm may be silenced by pressing the alarm silence button, but the visual alarm indicator can only be cancelled by fault correction. The alarm shall detect and filter out transient (less than 0.6 seconds) signals created by R.F.I. The alarm shall be capable of displaying alarm history for all possible alarm conditions.

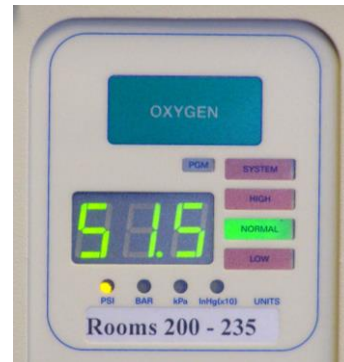
Each vertical slot shall display up to three gases. The alarm shall be capable of monitoring and displaying up to 14 gases per alarm panel. Gas modules can be arranged in accordance with the customer’s requirements.

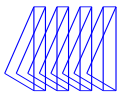


(Area alarm shown is 3 gases – part # DUXXOVA)

In addition, each Area Alarm Module shall incorporate the following features:

- Does not require re-calibration
- Gas specific sensor with DISS nut & nipple. An error message will be displayed if incorrect sensor or no sensor is attached.
- User programmable pressure limits (Programmed from factory at 60/40 psig and 12 in Hg)
- Shall be capable of displaying gas readouts in PSI (in Hg), BAR or kPa, button selected.
- Gas alarm repeat feature factory set at 10 minutes, adjustable from 1 minute to 999 minutes, or off
- Digital Transducers to be mounted inside the alarm for easy access, or may be mounted remotely up to 5,000 ft (1,524 m) utilizing twisted pair wiring
- Gas specific DISS risers with serviceable Frontall™ (front end loaded) cartridge demand check valve

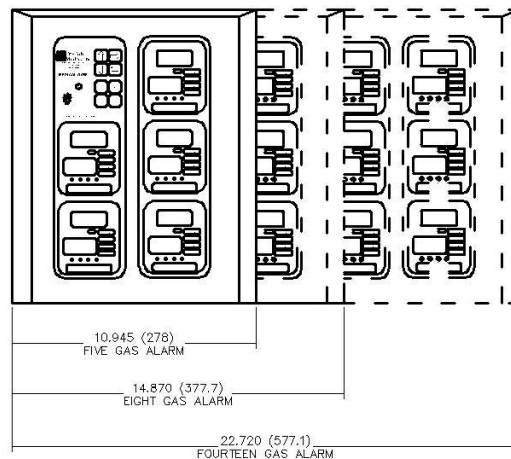
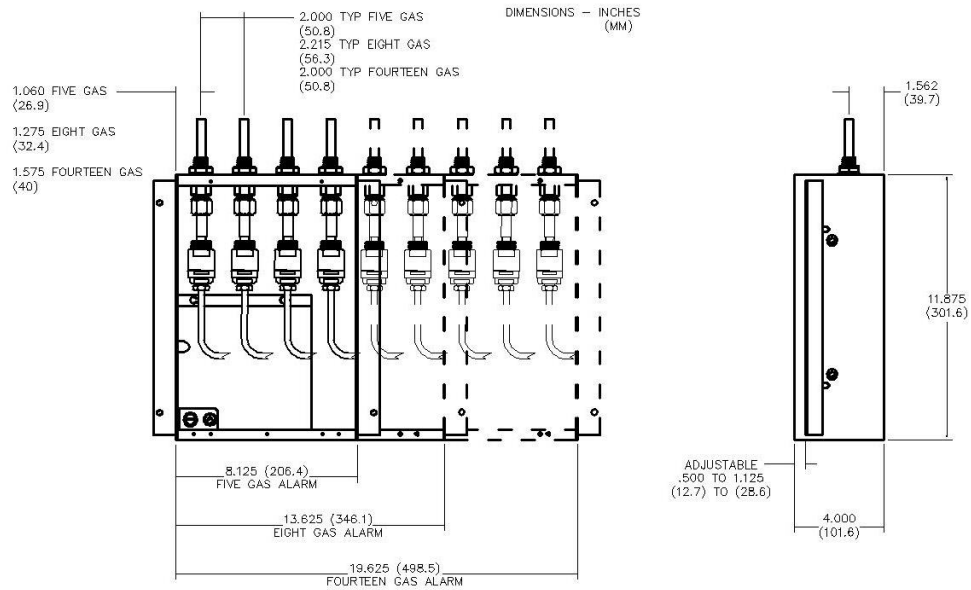




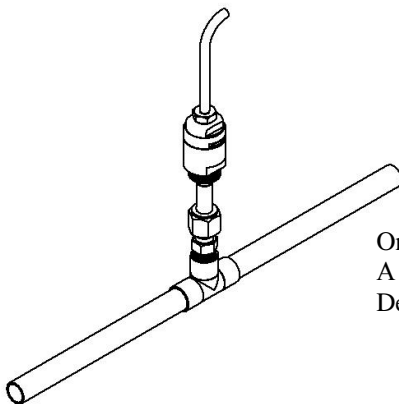
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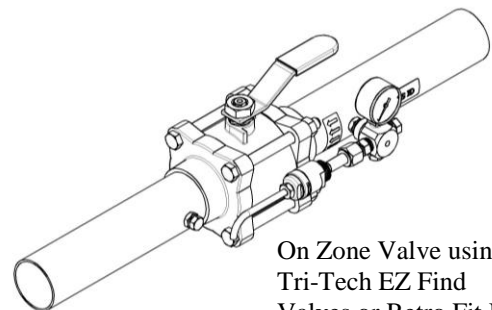
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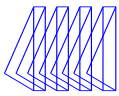
Typical Methods of Remotely Mounting Transducers



On piping using
A "Tee" and Gas Specific
Demand Valve



On Zone Valve using
Tri-Tech EZ Find
Valves or Retro Fit Kits



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Ordering Information:

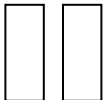
<p>D U</p> <p>DU = USA (NFPA) Label Colors</p> <p>A = Medical Air B = Blank Slot C = Carbon Dioxide 50 psi D = Carbon Dioxide 80 psi F = Future Gas Module H = Hyperbaric Oxygen I = Instrument Air J = CO2-O2 Mixtures CO2 over 7% DISS 1080 K = He-O2 Mixtures Helium over 80% DISS 1060</p>	<p>Area Alarm Gas Services</p> <p>L = Helium N = Nitrous Oxide O = Oxygen R = Tri-Gas T = Nitrogen V = Medical Vacuum W = WAGD/EVAC</p>	<p>TNET Communication</p> <p>Interface Option (If Applicable)</p> <p>1 = Wireless 2 = Ethernet 3 = RS-485</p>
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Contact Customer Service for Gases not Listed Above

Note: Medical Gas Area Alarms come in one of three configurations shown below – 2 Slots, 3 Slots or 5 Slots

Examples:

2 Slot Boxes can accommodate up to 5 gases



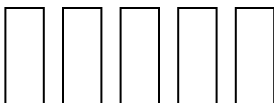
DUOFB = 1 Gas Area Alarm – OXY, Future Gas Module, Blank slot, NFPA colors, 2 slot box
 DUXXOVA = 3 Gas Area Alarm – Blank Position, Blank Position, OXY, VAC, AIR, NFPA Colors, 2 slot box
 DUOVANT2 = 5 gas Area Alarm– OXY, VAC, AIR, N2O, N2, NFPA colors, 2 slot box with Optional Ethernet
 Communication Interface to TNET

3 Slot Boxes can accommodate up to 8 gases



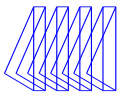
DUOVANTB = 5 Gas Area – OXY, VAC, AIR, N2O, N2, Blank slot, NFPA colors, 3 slot box
 DUXXOVANTC = 6 Gas Area Alarm – OXY, VAC, AIR, N2O, N2, CO2, NFPA colors, 3 slot box
 DUOVANTCWR1 = 8 Gas Area Alarm - OXY, VAC, AIR, N2O, N2, CO2, WAGD, Tri-Gas, NFPA colors, 3 slot box
 With Optional Wireless Communication Interface to TNET

5 Slot Boxes can accommodate up to 14 gases



DUXXOVANTCBB = 6 Gas Area Alarm – Blank Position, Blank Position, OXY, VAC, AIR, N2O, N2, CO2,
 Blank slot, Blank slot, NFPA Colors, 5slot box
 DUXXOVANTCWIFB = 8 Gas Area Alarm – Blank Position, Blank Position, OXY, VAC, AIR, N2O, N2,
 CO2, WAGD, Instrument Air, Future Gas Module, Blank slot, NFPA colors,
 5 slot box
 DUOOVVAHNTCWILR = 14 Gas Area Alarm – OXY, OXY, VAC, VAC, AIR, AIR, Hyperbaric Oxygen,
 N2O, N2, CO2, WAGD, Instrument Air, Helium, Tri-Gas, NFPA colors,
 5 slot box

See next page for standard alarm configuration example drawings



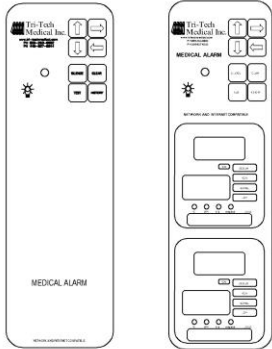
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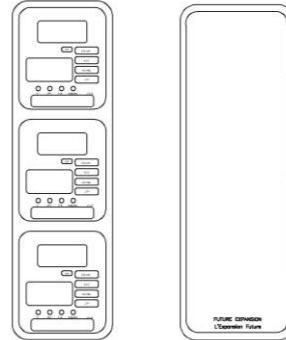
1st Slot Options



Keypad Button Board
with Buzzer and
2 Blank Positions
Model Number
Begins with DUXX

Keypad Button Board
with Buzzer and
2 Gas Module Positions
choose 2 gases from
Chart below

2nd, 3rd, 4th and 5th Slot Options



3 Gas Module Positions
choose 3 gases from
Chart below

Blank Slot, Use "B"
in Model Number

D U

DU = USA (NFPA)
Label Colors



Area Alarm Gas Services

TNET Communication

Interface Option
(If Applicable)

- A = Medical Air
- B = Blank Slot
- C = Carbon Dioxide 50 psi
- D = Carbon Dioxide 80 psi
- F = Future Gas Module
- H = Hyperbaric Oxygen
- I = Instrument Air
- J = CO2-O2 Mixtures CO2 over 7% DISS 1080
- K = He-O2 Mixtures Helium over 80% DISS 1060

- L = Helium
- N = Nitrous Oxide
- O = Oxygen
- R = Tri-Gas
- T = Nitrogen
- V = Medical Vacuum
- W = WAGD/EVAC

- 1 = Wireless
- 2 = Ethernet
- 3 = RS-485

Contact Customer Service for Gases not Listed Above

Note: Medical Gas Area Alarms come in one of three configurations shown below – 2 Slots, 3 Slots or 5 Slots

- 2 Slot Boxes can accommodate up to 5 gases
- 3 Slot Boxes can accommodate up to 8 gases
- 5 Slot Boxes can accommodate up to 14 gases