

Submittal Data Sheet

**Project
Information**

Project Number _____ Approval _____

Features

The Tri-Tech Area Alarm Panel conversion kits are designed to upgrade or retro-fit existing panels produced by several major brands. The conversion kit replaces all major components re-utilizing the existing back box. The kit includes: alarm front panel, power supply, mounting flange and transducers.

- Complies with NFPA 99. Made in the U.S.A.
- Self-contained unit – designed for ease of installation and service.
- Microprocessor controlled
- Self-diagnostic and error message display for ease of maintenance.
- No additional “filler plate” needed for most installations
- 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 alarm condition
- Alarm history display of previous alarm conditions
- Easy to read – color coded gas modules
- Hinged frame with lanyards for easy accessibility
- Three year PC board warranty

Specification

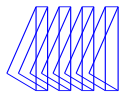
The Area Alarm Panel shall be the Tri-Tech Medical Area Alarm Panel. The panel shall be microprocessor controlled and designed to comply with NFPA 99. The panel shall be 100% digital and shall not require re-calibration. The alarm panel shall be enclosed in a steel frame and shall be designed to accept 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. In most cases, no additional “filler plate(s)” shall be required, the conversion shall cover the entire existing rough opening.



Area alarm shown is 4 gases, and 2 future expansion modules part # DU7OAFVVF

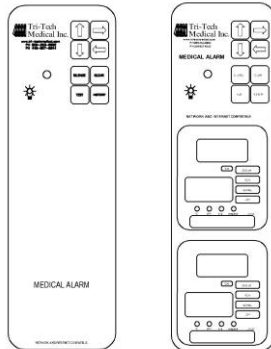
In addition, each area alarm module shall incorporate the following features:

- 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 audible alarm repeat feature, factory set at 10 minutes, adjustable from 1 minutes to 999 minutes, or off
- Transducers mount 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



Ordering Information:

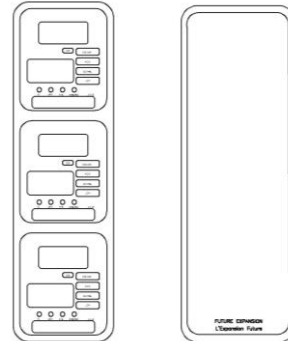
1st Slot Options



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

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

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

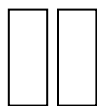


3 Gas Module Positions
choose 3 gases from
Chart below

Blank Slot, Use "B"
in Model Number

Area Alarm Conversion Type (from below existing alarm to Tri-Tech Medical DU series)	Gas Modules (Choose letters from below – one for each gas service/module position)
DU2 = Amico with 1/8 or 1/4 npt F riser connection	A = Medical Air
DU4 = Chemetron	B = Blank Slot
DU6 = Tri-Tech AA series	C = Carbon Dioxide- 50 psig
DU7 = Ohio Medical (1970 to 1985)	D = Carbon Dioxide 80 psig
DU8 = Tri-Tech AU series	F = Future
Explanation: The first vertical slot will always contain the 'button board' in the top 1/3 rd of the slot. The bottom 2/3rds of the first slot may be either blank or contain up to 2 gas modules or contain 2 future gas labels (this option would be designated by using the letter F in the part number).	H = Hyperbaric Oxygen
	I = Instrument Air
	J = CO ₂ -O ₂ Mixtures CO ₂ over 7% DISS 1080
	K = He-O ₂ Mixtures Helium over 80% DISS 1060
	L = Helium
	M = Gas Mixtures 50 psig
	N = Nitrous Oxide
	O = Oxygen
	R = Tri-Gas
	S = AGSS (<i>Anesthetic Gas Scavenging System</i>)
The second thru fifth slots may be blank (B) or contain any mixture of gas modules, or future gas labels. Alarm configurations must be either 2, 3 or 5 slots. 1 and 4 slot configurations are not available.	T = Nitrogen
	V = Medial Vacuum
	W = WAGD/EVAC (<i>Waste Anesthetic Gas Disposal</i>)
	X = Blank gas module - (only used to define first slot configuration)

Examples:



2 Slot Boxes can accommodate up to 5 gases

- DU4OV B = Chemetron 2 Gas – 1st slot – Button, Oxygen, Medical Vacuum
2nd slot – Blank Slot
- DU7OVANT = Ohio 5 Gas - 1st slot – Button, Oxygen, Medical Vacuum
2nd slot - Medical Air, Nitrous Oxide, Nitrogen
- DU6FFOVH = Tri-Tech 3 Gas - 1st slot– Button, future gas, future gas
2nd slot - Oxygen, Medical Vacuum, Hyperbaric Oxy



3 Slot Boxes can accommodate up to 8 gases

- DU2XXOVAB = Amico 3 Gas – 1st slot – Button, blank, blank
2nd slot – Oxygen, Medical Vacuum, Medical Air
3rd slot – Blank Slot



5 Slot Boxes can accommodate up to 14 gases

- DU8XXOVAOVAOVAOVA = Tri-Tech 12 Gas - 1st slot – Button, blank, blank
2nd slot – Oxygen, Medical Vacuum, Medical Air
3rd slot – Oxygen, Medical Vacuum, Medical Air
4th slot – Oxygen, Medical Vacuum, Medical Air
5th slot - Oxygen, Medical Vacuum, Medical Air