Project Information Project Number Approval

Features

The Tri-Tech Master Alarm Panel monitors and displays normal and alarm conditions from up to 64 remote medical gas source signals. Pressure switches and DISS union check valve connectors are sold separately.

- Complies with NFPA 99. Made in the U.S.A.
- Self-contained unit designed for ease of installation and service.
- MCP circuit board available for interface to building management system.
- Microprocessor controlled
- Self-diagnostic 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
- Visual (green) indication of normal condition
- Constant display and monitoring of each source alarm signal
- Individual user programmable remote signal alarm points (NC, NO or disabled)
- Dry contacts for remote monitoring of all alarm conditions
- Alarm history display of previous alarm conditions
- Hinged frame with lanyards for easy accessibility
- Three year PC board warranty
- Real time main line gas pressure readout modules available

Specification

The Master Alarm Panel shall be the Tri-Tech Medical Master 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 recalibration. The panel shall be able to interface with building management systems with the use of an MCP circuit board. The master alarm panel shall be compatible with the T-Net PC based medical gas information management system. 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 signals (less than 0.6 seconds). The alarm shall be capable of displaying alarm history for all possible alarm conditions.



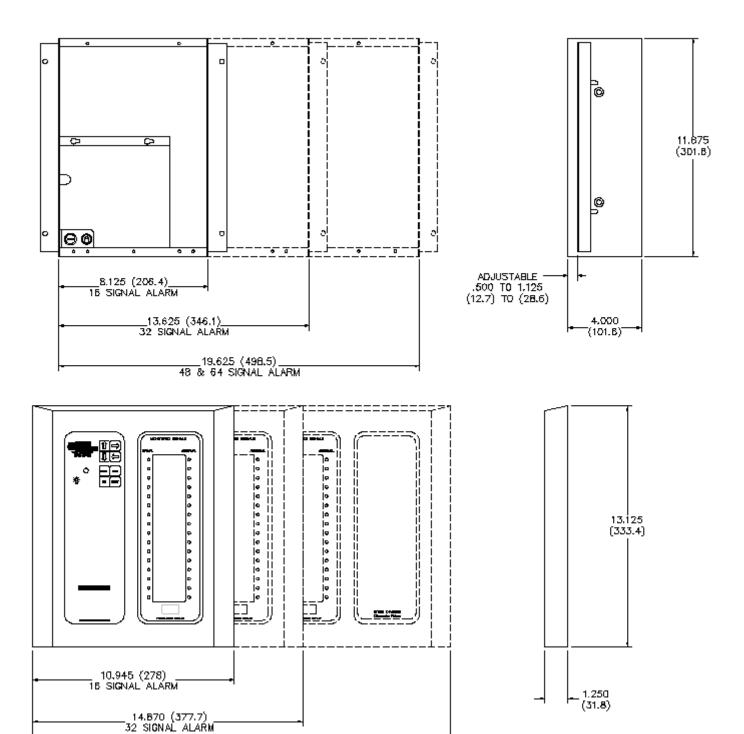
(Master alarm shown above is 16 signals – part # DU16)

Each source signal module shall monitor 16 signals. The alarm shall be capable of monitoring and displaying up to 64 medical gas source signals in increments of 16 source signals. The alarm is modular and may be initially installed as a smaller unit (i.e. 16 signals) and later expanded to (i.e. 32 signals).

In addition, each 16 signal Master Alarm Module shall incorporate the following features:

- Individual user programmable remote signal alarm points to accept NO or NC signals, or may be disabled. Factory preset to accept Normally Closed signals
- LED indicators (Green) confirms normal status, (Red) indicates abnormal condition
- Each signal easily labeled and positioned to suit any requirement using self adhesive labels provided with the alarm
- A set of dry contacts with relay to trigger an optional remote alarm in the event of an alarm condition

DIMENSIONS - INCHES (MM)



____22.720 (577.1)___ 48 & 64 SIGNAL ALARM



Ordering Information:										
D										
Label Colors	1	Area Alarm Gas	Services				r Remote gnals	I	Blank Slo Future Exp	
U = USA (NFPA) C = Canada (CSA)		O = Oxygen V = Medical Vacuu A = Medical Air N = Nitrous Oxide T = Nitrogen C = Carbon Dioxid W = WAGD/EVAG S = AGSS H = Hyperbaric Ox U = Utility Air L = Helium I = Instrument Air D = Carbon Dioxid M = Gas Mixtures P = Gas Mixtures h R = Tri-Gas F = Future	e ygen (USA) Surgical Ai e 80 psig 50 psig			16 = 16 32 = 32 48 = 48 64 = 64	points points	В	s = Blank Slo	t
Examples:										
DU16 = 16 signal Master Alarm, USA colors, 2 slot box DUOVB = 2 gas Area Alarm – Oxygen, Vacuum and Blank slot, USA colors, 2 slot box DUOFB = 1 gas Area Alarm – Oxygen, Future and Blank slot, USA colors, 2 slot box DUOVANT = 5 gas Area – OXY, VAC, AIR, N2O, N2 and Blank slot, USA colors, 2 slot box										
DCOV16B = 2 gas Area – OXY, VAC & 16 signal Master & Blank slot, USA colors, 3 slot box DU32 = 32 signal Master Alarm, USA colors, 3 slot box DUOVANTB = 5 gas Area – OXY, VAC, AIR, N2O, N2 and Blank slot, USA colors, 3 slot box DUOVANTCWMB = 8 gas Area, OXY, VAC, AIR, N2O, N2, CO2, WAGD, Gas Mixture and Blank slot, USA colors, 3 slot box										
		DU64 = 64 signs DUOVAB32 = 3 box DUOVANCTW signal Master, U	8 gas Area - OX $U32 = 8 gas Area$	Y, VAC, A ea – OXY,	AIR, Blan		_			
*Note – Medical Gas Alarms come in one of the three configurations shown above - 2 slots , 3 slots or 5 slots.										
See next page for standard alarm configuration example drawings										

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Ordering Infor	mation:								
Logic Module With Buzzer	Logic Module With Buzzer & Two Gas (Area Alarm Modules)	Area Alarm Module (Choose 3 letters from chart below – one for each gas service)	Master Alarm Module 16 Signals per module	Blank Module					
Part Number DU = USA (NFPA) DC = Canada (CSA)		Part Number A = Medical Air C = Carbon Dioxide E = EVAC/WAGD F = Future H = Hyperbaric Oxygen N = Nitrous Oxide O = Oxygen T = Nitrogen U = Utility Air V = Vacuum	Part Number 16 = One 16-signal module 32 = Two 16-signal modules 48 = Three 16-signal modules 64 = Four 16-signal modules	Part Number B = Blank Module					
Examples:									
DU16 = 16 signal Master Alarm DUOVB = 2 gas Area Alarm – Oxygen, Vacuum and Blank Module DUOFB = 1 gas Area Alarm – Oxygen, Future and Blank Module									
	DU32 = 32 sign	gas Area Alarm – OXY, VAC & 16 s al Master Alarm 5 gas Area Alarm – Oxygen, Vacuur							
	DUOV DUOV	= 64 signal Master Alarm AB32 = 3 gas Area Alarm – OXY, V ANCTEU32 = 8 gas Area Alarm – C gnal Master Alarm							

*Note – Medical Gas Alarms come in one of the three configurations shown above - 2 slots, 3 slots or 5 slots.