GM3-T Series Touch Screen Display Medical Automatic Manifold System

GENTEC® GM3-T Series Touch Screen Display Medical Automatic Manifold System is designed to provide an uninterrupted gas supply without any manual adjustments. This system uses liquid cryogenic tank as primary gas source and automatically switches over to the cylinder bank when the tank is below the lower limit. Even in case of a power failure, the system continues to supply gas without interruption. The system is designed to meet the latest edition of NFPA 99 and EN ISO 7396-1 standards.

*Illustration only, drawing not to scale

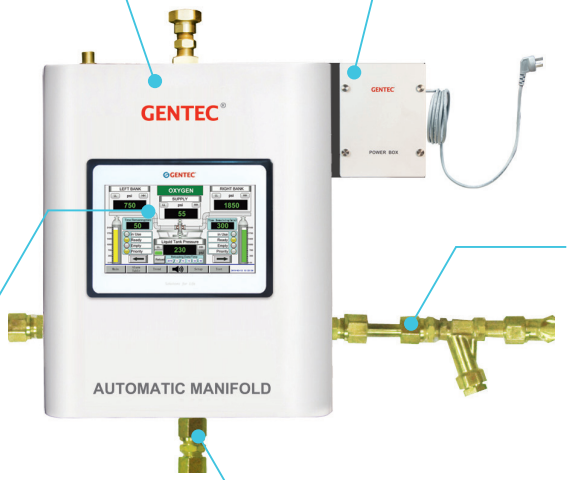
Features

Automatic 3-way Gas Source	Liquid cryogenic tank is used as the main gas source in this system and dual-bank cylinder as reserve supply-source. Whenever the pressure from the tank is below the lower limit, the system will automatically shift to use cylinders as gas source.
Ease of monitoring	Convenient monitoring for all real-time information of your manifold system (pressure levels of each source, delivery pressure, alarm table, trend log, and more) in an integrated display, which in turn can be forwarded to the control room and even displayed on your smartphone.
Uninterrupted Flow	Equipped with backup secondary regulator to ensure the pipeline is properly and precisely supplied with gas even during maintenance. No more need to stop the system for maintenance; save you time and money.
International Standard	The manifold is ETL listed to UL407 and UL252, as well as CE certified.

Efficient Design	Clean and compact design to optimize available space and ensure that regular service will be conducted quickly and easily.
Fully Compatible	Available in several international standards (DIN, BS, CGA, and more)
Safety First	GENTEC regards safety as our main priority, with safety valves for each high-pressure source, as well as separate line pressure safety valves. The piping joints are silver-brazed for maximum leak prevention.

- Fully enclosed, dust-proof metal cabinet
- Suitable for high flow system rated for 120m³/h (4200 SCFH), when delivery pressure is 50 psi
- Cleaned for Oxygen use according to CGA 4.1 and ISO 15001
- Available for wall or floor mount

- Rated IP66 Enclosure: dust-tight and protected against heavy seas or powerful jets of water. Equivalent to NEMA rating 4, 4X (National Electrical Manufacturers Association)



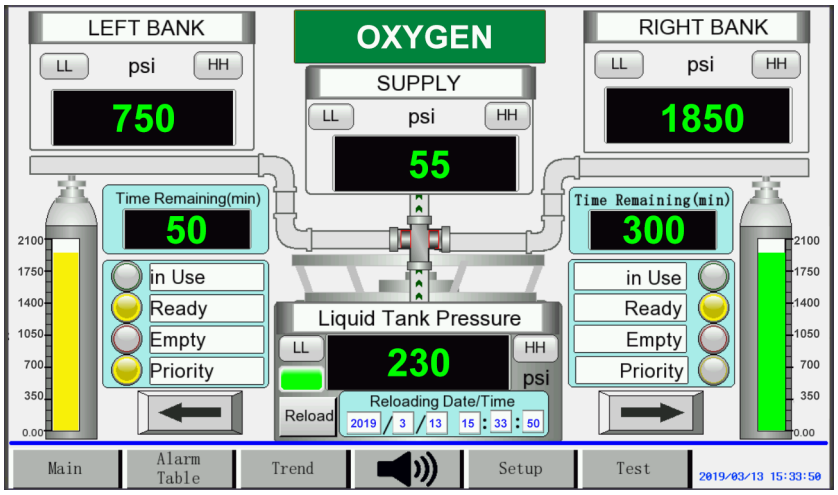
- 10” (25.4cm) Touch Screen Display with Password protected interface
- Full networking capabilities including Modbus RTU/TCP, UDP protocols
- Auto generated alarm table and trend log

- Optional master shutoff valves
- Optional external filter provides easy filter element replacement

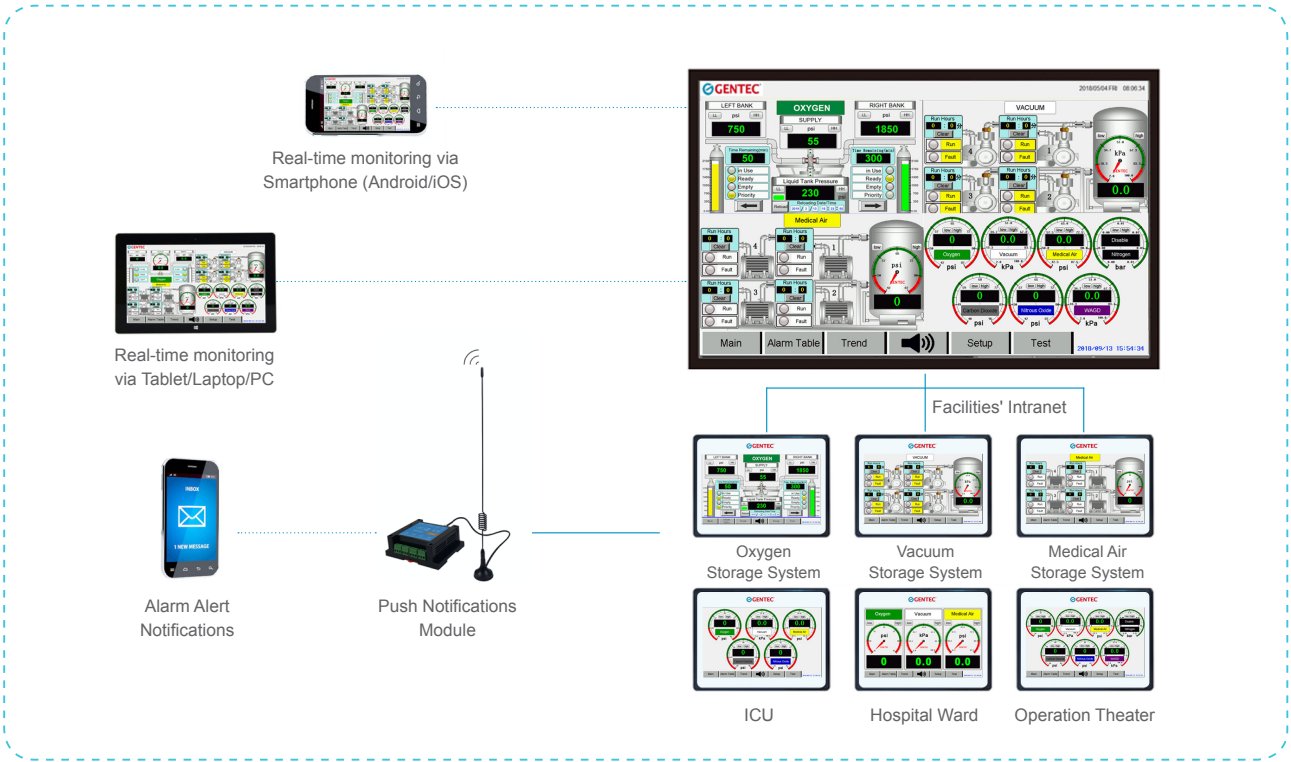
- Liquid cryogenic tank as primary gas supply with dual-sided cylinder as secondary supply source

Series Number	Gas Service	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m³/h)	Outlet Connection	Inlet Connection
GM3-TL	Oxygen Nitrogen	Primary: 450 (30) Secondary: 3000 (207)	50~75 (3.4 ~ 5.2)	4200 (120)	3/4” NPT attachment to the union	Primary: M27 x 1.5 Secondary: G5/8
GM3-TM			95~125 (6.6~8.6)			
GM3-TH			140~190 (9.7~13.1)			

* Connections can be changed to meet DIN, BS or other standards

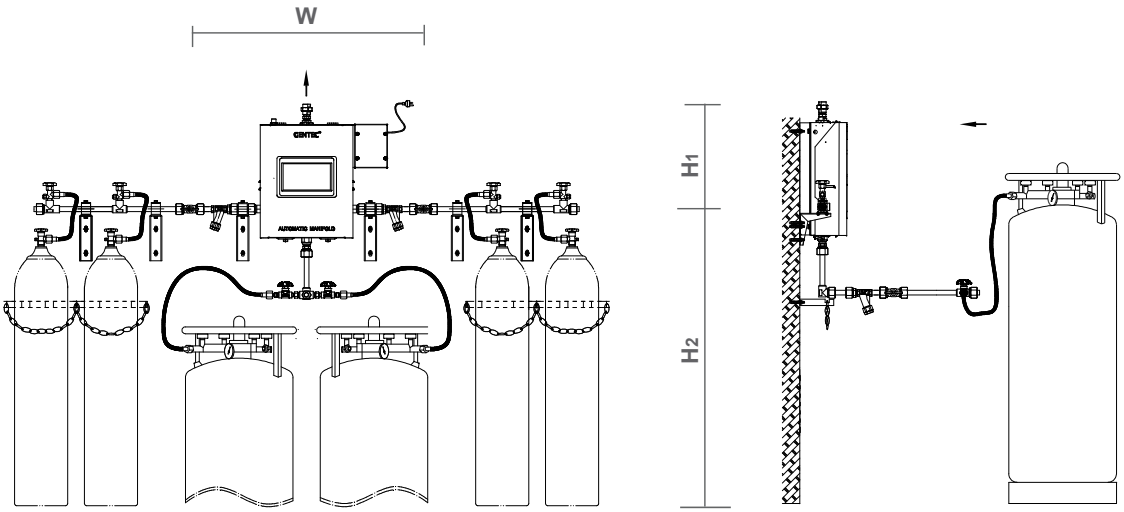


- The alarm is ETL listed to UL 1069 and CSA C22.2 No. 205
- A Trend Log to view the pressure trends and forecast if maintenance or additional support is required
- An Event Log displays history of time-stamped alarm events



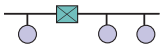
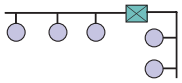
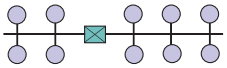
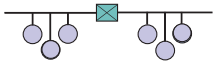
- Monitor and control all panels in a single place to minimize time required to take action when the demand arises
- Real-time supervision with your own gadgets (smartphones/tablets/laptops)
- Get notified with SMS whenever there are essential warnings
- Easy to upgrade and incorporate new components to the existing supervision system

Dimensions



W in.(mm)	H1 in.(mm)	H2 in.(mm)
41.3 (1050)	15.8 (400)	55.1 (1400)

Manifold System Layouts

Standard Layout	"L" shape Layout	U shape Layout	Crossover Layout	Staggered Layout
				

Ordering Information

GM3-T	L -		O2 -	U -	(5L - 5R -	S	2)
Series	Delivery Pressure		Gas Service	Color Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM3-T	USA Standard L: 55 psi (380 kPa) M: 100 psi (690 kPa) H: 185 psi (1270 kPa)	EN Standard L: 72.5 psi (5 bar) M: 116 psi (8 bar) H: 145 psi (10 bar)	O_2: Oxygen N_2: Nitrogen	E: ISO 32 U: NFPA 99 (USA)	1L-2R: One cylinder on the left, Two cylinders on the right 5L-5R: Five cylinders on the left, Five cylinders on the right 0-0: Left and Right side each with filter and master shutoff valve Note: Direction of piping (Right or Left) is indicated by facing the manifold.	S: Standard layout L: "L" Shape layout U: "U" Shape layout D: Crossover layout X: Staggered layout	1: 5" (127 mm) 2: 10" (254 mm) 3: 13" (330 mm) 4: 18" (457 mm)

Example: **GM3-TL-O2-U-(5L-5R-S2)** indicates a 5*5 oxygen cylinder touch screen automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout.
GM3-TL-O2-U-(0-0) indicates an oxygen changeover system with filters and master shutoff valves.
GM3-TL-O2-U indicates an oxygen changeover system only.