

# Medical Gas Manifold Digital Automatic High Pressure

## Product Specification

### FEATURES AND BENEFITS

- Digital LCD Pressure Display
- NEMA® 4X Enclosure
- Automatic Leak Detection
- Automatic Transducer Diagnostic Testing

### SPECIFICATIONS

The medical gas manifold shall be Ohio Medical® series. The manifold shall comply with the latest edition of NFPA® 99.

The manifold shall provide an uninterrupted supply of gas to the pipeline at a constant pressure. The manifold shall permit automatic switchover for the “in use” (primary) bank of cylinders to the “reserve” (secondary) bank of cylinders.

The manifold shall have a NEMA® 4X enclosure allowing the manifold to be mounted outdoors in a semi-protected environment (0° - 140°F). The manifold shall be equipped with an internal power supply module, header bars/cylinder connections, master shut off valves and optional external heaters for Nitrous Oxide (N<sub>2</sub>O) and Carbon Dioxide (CO<sub>2</sub>) service.

The pressure control cabinet shall contain dual pressure regulators and switches that assure an uninterrupted, regulated flow of gas to the pipeline. The cabinet shall have a digital pressure display and three analog pressure gauges, one for each supply side and one for the pipeline delivery pressure. A group of indicator lights shall be used to indicate the status of the left and right cylinder banks. “in use” is indicated by the green light, and the “reserve” cylinder bank is indicated by the yellow “standby” light. A red “empty” light indicates a depleted cylinder bank. The manifold shall be equipped with a left or right bank inlet priority switch. An external switchover setting module shall be provided.

The control cabinet shall be equipped with a leak detection alert, in the event the reserve bank of cylinders decreases in pressure by 25% from the initial standby pressure. When this occurs, the standby status light and the empty status light will blink indicating that a leak has been detected. The unit shall include a self diagnostic testing feature to check the internal inlet and delivery pressure transducer sensors. During this test if a fault is found the digital display will read “ERROR” Right, Left, or Delivery depending on where the fault was generated.

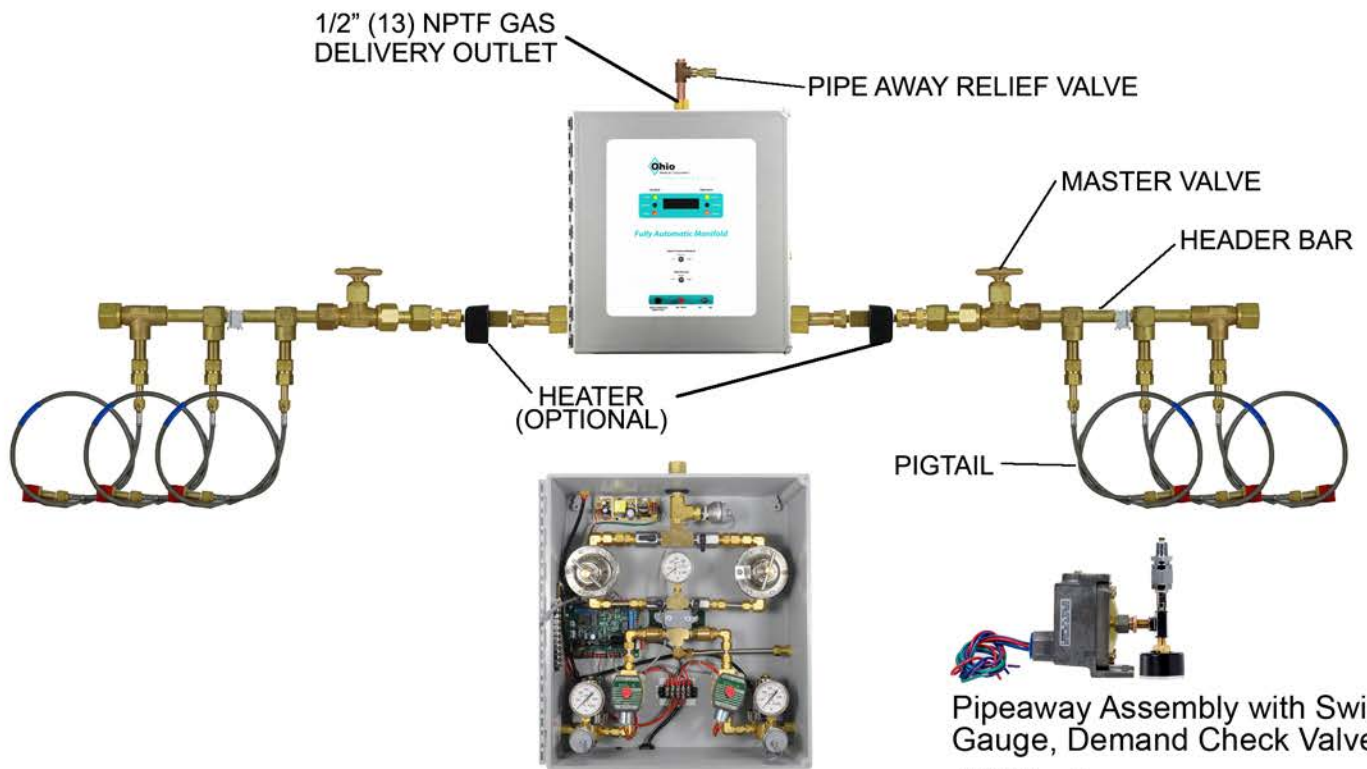
Dry contacts are provided in the internal alarm terminal strip for connection to a remote alarm to signal when the reserve bank (secondary) is in use. No manual resetting is required when the bank has been replaced with new cylinders and re-pressurized, the red light goes off and the yellow “standby” light comes on and the replaced bank is now the reserve bank.

Cabinet dimensions are 16” W X 18H X 10.5 D  
Domestic input voltage shall be 120 VAC

The header bars shall be modular in design, allowing for future expansion. Each inlet port shall be equipped with an individual check valve and each brass header bar shall include a master shutoff valve to shut off the gas in emergency situations. Cylinder connections shall have a stainless steel mesh covering\* and be flexible to facilitate cylinder alignment with the header bar and include gas specific CGA® fittings on each end. Piping regulators and control switchover components shall be cleaned for oxygen service.

\*Oxygen manifolds shall be equipped with copper pigtailed.  
Equipment is manufactured in the USA in an ISO® 9001 registered facility.





Pipeway Assembly with Switch, Gauge, Demand Check Valve

- 263741 Oxygen
  - 263742 Vacuum
  - 263743 Air
  - 263744 Nitrous Oxide
  - 263745 WAGD
  - 263746 Nitrogen \*
  - 263747 Carbon Dioxide
- \* Requires two switches

## PART NUMBERS

Manifold  
2634XX

120 VOLT	
OXYGEN	32
NITROUS OXIDE	34
NITROGEN	36
AIR	38
CARBON DIOXIDE	40
ALL OTHER VOLTAGES	
OXYGEN	33
NITROUS OXIDE	35
NITROGEN	37
AIR	39
CARBON DIOXIDE	41

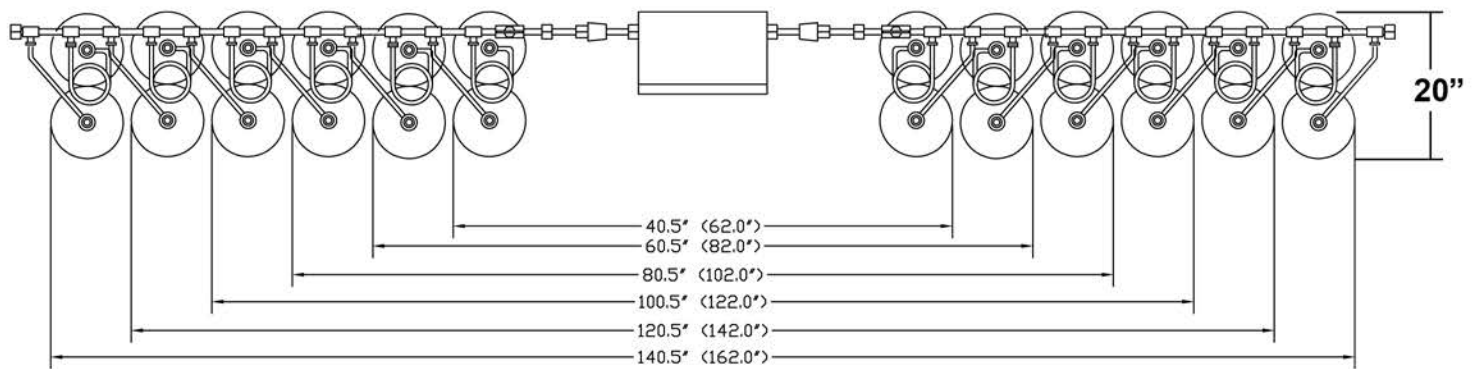
Header Bar & Pigtail  
261XXX - XX

664	Oxygen
665	Nitrous Oxide
666	Nitrogen
667	Air
668	Carbon Dioxide

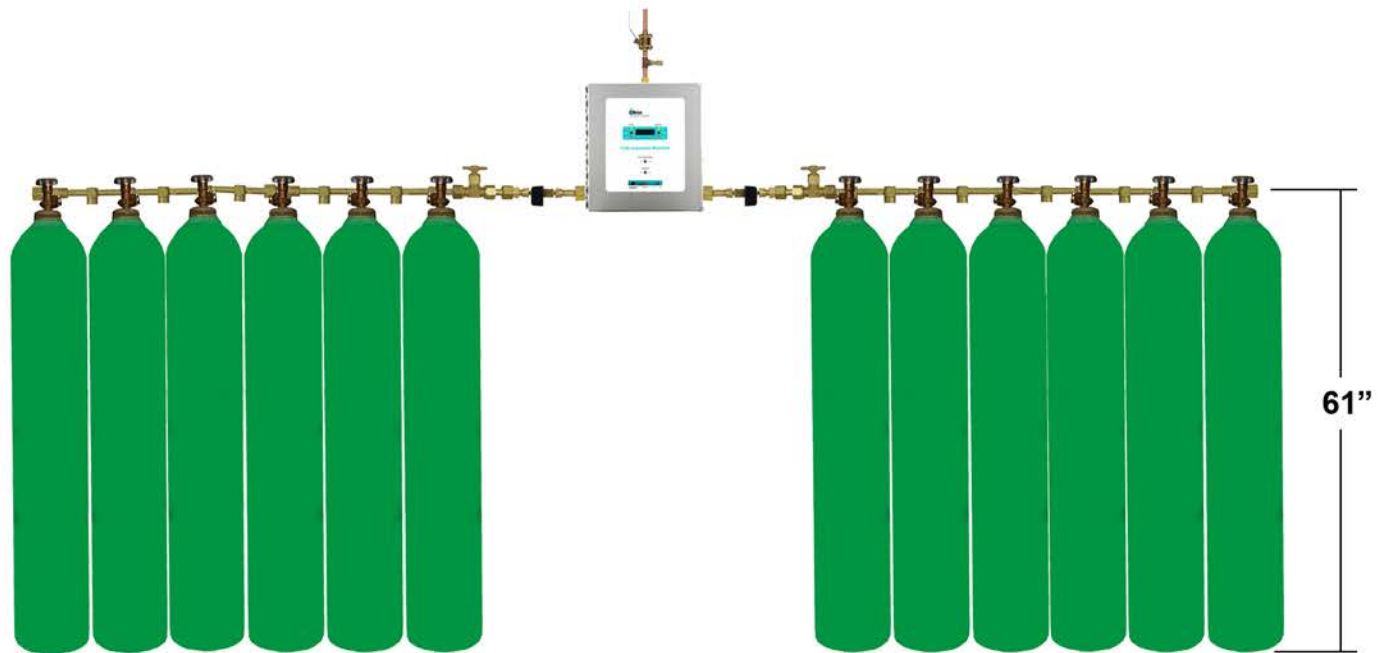
**OPTIONAL HEATER (2 REQUIRED) - 263431**

Number of cylinders

1 X 1	01
2 X 2	02
3 X 3	03
4 X 4	04
5 X 5	05
6 X 6	06
7 X 7	07
8 X 8	08
9 X 9	09
10 X 10	10



**Dimensions in ( ) are with optional Heaters**



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