

Submittal Data Sheet

Features

- Line pressure sensor may be mounted inside the cabinet or remotely located to eliminate the need for a high/low pressure switch for master alarm operation – no need to purchase a high/low pressure switch or DISS union.
- Electronic monitoring of circuits with up to 20 error, alarm or information messages.
- May be field converted for lower or higher flow line regulators or for use with high pressure cylinders.
- Includes 3/4" source or main line ball valve with copper tube extension, part number PX-48-0023.
- Reserve Oxygen manifolds (sold separately – RWP or RSP series) supplied with copper pigtails (stainless flexible pigtails supplied for other gas services)
- Double "Z" bracket for one man installation.
- Unit of measure switching (psi, kPa, BAR).
- Dual line pressure regulators
- Cabinet weight 70 lbs.
- Input power 120 to 240 VAC, 50 to 60 Hz – single point connection.
- OSHPD Seismic Certified, OSP-0380-10.

Specification

The NFPA 99 compliant digital, fully automatic manifold shall be a Powerex LL series. No manual resetting of valves or levers shall be required. The unit shall switch from Primary to Secondary bank without fluctuation in line delivery pressure. Simultaneously, the Secondary in Use alarm shall be triggered by the manifolds microprocessor. The manifold shall continue to provide gas, in the event of a power failure, until both banks are depleted.

After the switchover, the secondary bank shall then become the Primary. The manifold circuit board shall also trigger the "Emergency Reserve in Use" and the "Emergency Reserve Low" alarms when used with PX-14-3001 & PX-14-3002 transducers (supplied separately). The manifold shall be capable of being converted for lower or higher flow line regulators or for use with high pressure cylinders.

The microprocessor based control panel shall incorporate LED's and an illuminated text display and shall provide electronic monitoring of circuits with up to 20 error, alarm or information messages displayed for ease of maintenance.

The illuminated text display shall be readable even in poor lighting conditions. Analog gauges shall also be provided so that line and both bank pressures may be observed in the event of a power failure. The control panel shall also incorporate a set of LED's for each bank, green for "Bank in Use", amber for "Ready" and red for "Empty".



Model PX-LLU120X1H with PX-RWP-9-4S shown above

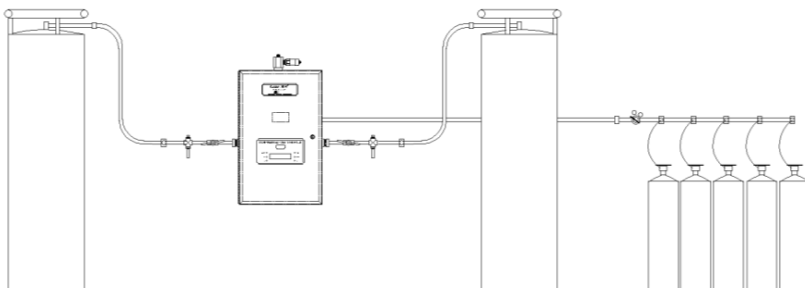
All manifold regulators, piping and control switching equipment shall be cleaned for use with oxygen service and installed in a steel powder coated cabinet (weatherproof version available) to provide protection and minimize tampering.

Manifold Cabinet Flow Capacity

Vessel Head Pressure Setting PSI	Static Delivery Pressure Setting PSI	Pressure Drop	Pressure Flowing PSI	Manifold Line Regulator Delivery Pressure and Flow Option		
				Average Flow Rate in SCFH (l/min)		
				1H	2H	3H
150	53	3	50	595 (281 l/min)		
		5	48	1,200 (567 l/min)		
		7	46	1,320 (623 l/min)		
		10	43	1,380 (652 l/min)		
150	85	3	82		325 (153 l/min)	
		5	80		950 (449 l/min)	
		7	78		1,090 (515 l/min)	
		10	75		1,140 (538 l/min)	
150	175	10	165			N/A
		20	155			N/A
		30	145			N/A
		35	140			N/A

Vessel Head Pressure Setting PSI	Static Delivery Pressure Setting PSI	Pressure Drop	Pressure Flowing PSI	Manifold Line Regulator Delivery Pressure and Flow Option		
				Average Flow Rate in SCFH (l/min)		
				1H	2H	3H
250	53	3	50	690 (326 l/min)		
		5	48	2,160 (1,020 l/min)		
		7	46	2,280 (1,076 l/min)		
		10	43	2,340 (1,105 l/min)		
250	85	3	82		1,110 (524 l/min)	
		5	80		1,620 (765 l/min)	
		7	78		2,160 (1,020 l/min)	
		10	75		2,220 (1,048 l/min)	
250	175	10	165			1,045 (494 l/min)
		20	155			1,095 (517 l/min)
		30	145			1,170 (552 l/min)
		35	140			1,180 (557 l/min)

Dimensional Drawing



Typical installation shown above
Cabinet dimensions 26 1/4" H x 17" W x 9" D



20" Header Length (Header pictured above accommodates 2 - 72" flexible pigtails for 2 portable bulk vessels, plus relief valve with pipe away)

Design Lengths

Total Number of Cylinders	2	4	6
Cabinet width + left header width + right header width only – no vessels	4' - 9" (1.45 m)	4' - 9" (1.45 m)	6' - 0" (1.72 m)

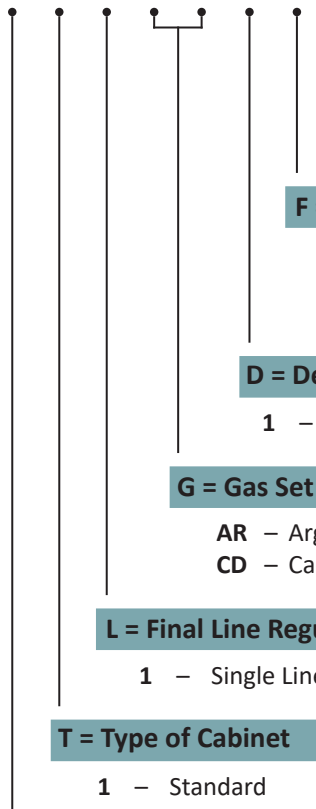
See Separate Manifold Header Literature for Header Part Numbers

Ordering Information

Easy to use modular ordering system. Fill in the blanks to specify the manifold that meets your needs.

PX-

L	L	U	T	L	G	G	D	F
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F = Flow & Heater Options

H – High Flow without Heaters **X** – High Flow with Heaters*

**Input voltage limited to 120 VAC for these Models*

(Transformer kit part # PX-35-3004 reduces 240 VAC single phase to 120 VAC.)

D = Delivery Pressure

1 – 50 psi **2** – 80 psi **3** – 170 psi

G = Gas Set

AR – Argon

HO – Hyperbaric Oxygen

NO – Nitrous Oxide

CD – Carbon Dioxide

NT – Nitrogen

OX – Oxygen

L = Final Line Regulation

1 – Single Line Regulator

2 – Dual Line Regulator (required for NFPA 99 compliant manifolds)

T = Type of Cabinet

1 – Standard

2 – Weatherproof

U = Country

U – U.S.A.

C – Canada

Examples:

PX-LLU22OX1H = Portable bulk vessel x Portable bulk vessel Manifold, Weatherproof Cabinet, Dual Line Regulators, CGA 540 Oxygen service, 50 psi delivery, High flow