



# FirstCall<sup>™</sup> Medical Gas Manifold

# FirstCall™ Medical Gas Manifold



Cylinder x Cylinder Manifold



**Designed &  
Manufactured  
in the USA**

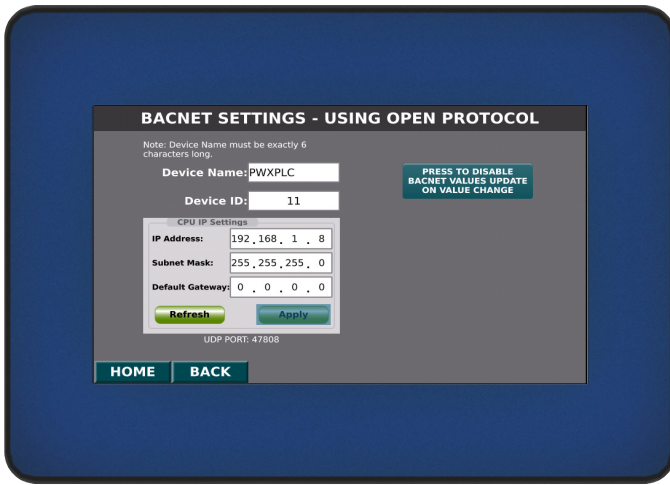
with U.S. and Imported Components

The Powerex FirstCall™ digital fully-automatic medical gas manifolds deliver an uninterrupted supply of medical gas to a facility. The manifold is cleaned, tested, and prepared for the intended medical gas service. It is constructed in accordance with requirements of the latest edition of NFPA 99 and CGA.

- Industry-leading flow capacity
- Full, high-resolution 7" touchscreen HMI
  - Graphically displays bank pressure, primary/secondary bank status, emergency reserve bank status (liquid only), final line pressure, changeover set point, and alarm status
- System logic controlled by next generation PLC technology
- BACnet over IP standard in all models
- Maintenance Mode
  - Disables alarm for 15 minutes
- Final line sensor/switch included
- Robust changeover design using dome-loaded primary regulators controlled by dual solenoids
- Robust piston-style final line regulator
- Removable cabinet enclosure for improved service access
- Single point vent connection
- Push-button bank changeover
- 3/4" source valve included
- Easy mounting bracket system
- NEMA 4 enclosure optional
- Designed and manufactured in the USA



# BACnet



Seamlessly connect to your building management system via Ethernet using BACnet over IP protocol.

- Centrally monitor medical gas equipment, along with all other facility equipment
- Standard in every panel



Building Automation System

BACnet  
over IP



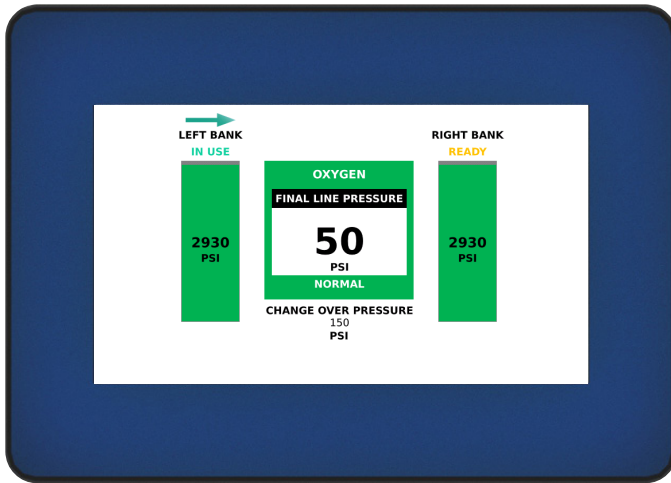
Medical Gas Alarm

Medical Air  
Compressor System

Medical Vacuum System

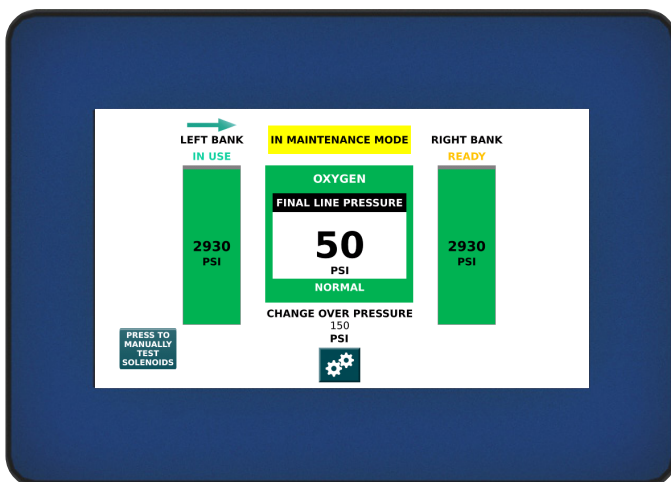
Medical Gas Manifold

# PLC + HMI



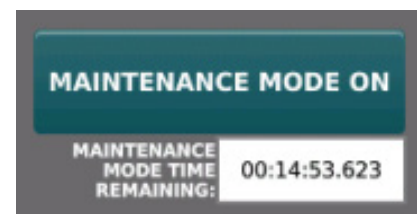
Combination PLC+HMI monitors inputs from bank and final line transducers. The PLC controls bank changeover and generates alarm signals. Bank status and alarm status are displayed on high quality 7" LED HMI touchscreens. Preprogrammed standard settings included with all standard medical gases. Changeover pressure, alarm messages and descriptions are fully customizable. Alarm and error history is recorded in Alarm Summary. The unit is capable of communicating with building monitoring system via Ethernet connection using BACnet over IP.

# Maintenance Mode



When the password-controlled Maintenance Mode is toggled, the alarm will not activate during a normal alarm event.

- Allows a technician to perform maintenance without triggering an alarm
- Automatically toggles back to normal mode after 15 minutes



# Alarm History



The screenshot shows a mobile application interface titled "Alarm History". It features a table with columns for Name, Date / Time, Severity, Value, Change, and Info. Below the table are "HOME" and "BACK" buttons.

Name	Date / Time	Severity	Value	Change	Info
Final Line Pressure Low	12/7/20 14:41	Critical		ACK	🔔
Final Line Pressure Low	12/7/20 14:40	Critical	50	OFF	🔔
Final Line Pressure Low	12/7/20 14:40	Critical	25	LO ON	🔔
Final Line Pressure Low	12/7/20 14:39	Critical		ACK	🔔
Left Bank Empty	12/7/20 14:39	Critical		ACK	🔔
Right Bank Empty	12/7/20 14:39	Critical		ACK	🔔
Final Line Pressure Low	12/7/20 14:39	Critical	50	OFF	🔔

The Alarm History screen, accessible directly via the home screen, shows a record of alarm events which can easily be sorted for analysis, or downloaded for record keeping.



# Cylinder x Cylinder Manifold



## MFLD-CYL-NFPA-GG(-N4)

GG = Gas Type

O2 = Oxygen (55psig)

AIR = Medical Air (55psig)

N2O = Nitrous Oxide (55psig)

N2 = Nitrogen (180psig)

CO2 = Carbon Dioxide (55psig)

INST = Instrument Air (180psig)

HYP = Hyperbaric Oxygen (100psig)

N4 = NEMA 4 option

Ex. MFLD-CYL-NFPA-O2

MFLD-CYL-NFPA-N2O-N4



# Liquid x Liquid Manifold



## MFLD-LIQ-NFPA-GG(-N4)-PSI

GG = Gas Type

O2 = Oxygen (55psig)

N2O = Nitrous Oxide (55psig)

N2 = Nitrogen (180psig)

CO2 = Carbon Dioxide (55psig)

HYP = Hyperbaric Oxygen (100psig)

N4 = NEMA 4 option

PSI = Dewar Pressure Indication

230 PSI

350 PSI

Ex. MFLD-LIQ-NFPA-O2-230

MFLD-LIQ-NFPA-N2O-N4-350



# POWEREX<sup>™</sup> MEDICAL

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