



## Gas Control Panel



# Installation, Operation and Maintenance Manual

Model Number:	
Date Purchased:	
Purchased from:	

For further technical assistance, service or replacement parts, please contact:

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## **1.0 General Information**

The Gas Control Panel shall be a Series 1.

The Control Panel shall be cleaned and tested in accordance with NFPA.

The gas control panel shall be supplied with a quarter turn shut-off ball valve, rated at no less than 300 psi. Two 0-300 psi 2-1/2" diameter pressure gauges shall be provided to monitor both inlet and outlet pressures. The control panel shall come with a pressure regulator, adjustable between 0 - 300 psi.

The DISS outlet shall be a Diameter Index Safety System (D.I.S.S.) for Air or Nitrogen outlet for pressures above 200 psi. Customized outlet connections are available. The outlets shall be used for connection to pneumatic surgical tools.

The gas control panel shall be factory piped and 100% tested. All components shall be panel mounted on the front panel.

Products comply with NFPA-99.

### **Features:**

Stainless Steel front panel for ease of maintenance

Inlet and outlet display gauges in psi / kPa

High flow capacity

Manual shut-off valve

Outlet supply pipe for additional remote outlets

Maximum inlet pressure: 300 psi

NFPA 99 compliant

## **2.0 Description**

Pattons Medical gas control panel is manufactured to supply Nitrogen or Instrument Air to turbo-surgical tools.

The Gas Control Panel consists of a supply pressure gauge, pressure regulator, shut-off valve, panel outlet connection and remote outlet connection. The panel outlet connections are either Diameter-Index Safety Systems (DISS) (used for Nitrogen) and Schrader-Type Quick-Connect (used for Instrument Air). The gas control panel has been cleaned, tested and prepared for gas service in accordance with the National Fire Protection Association (NFPA 99).

## **3.0 Installation**

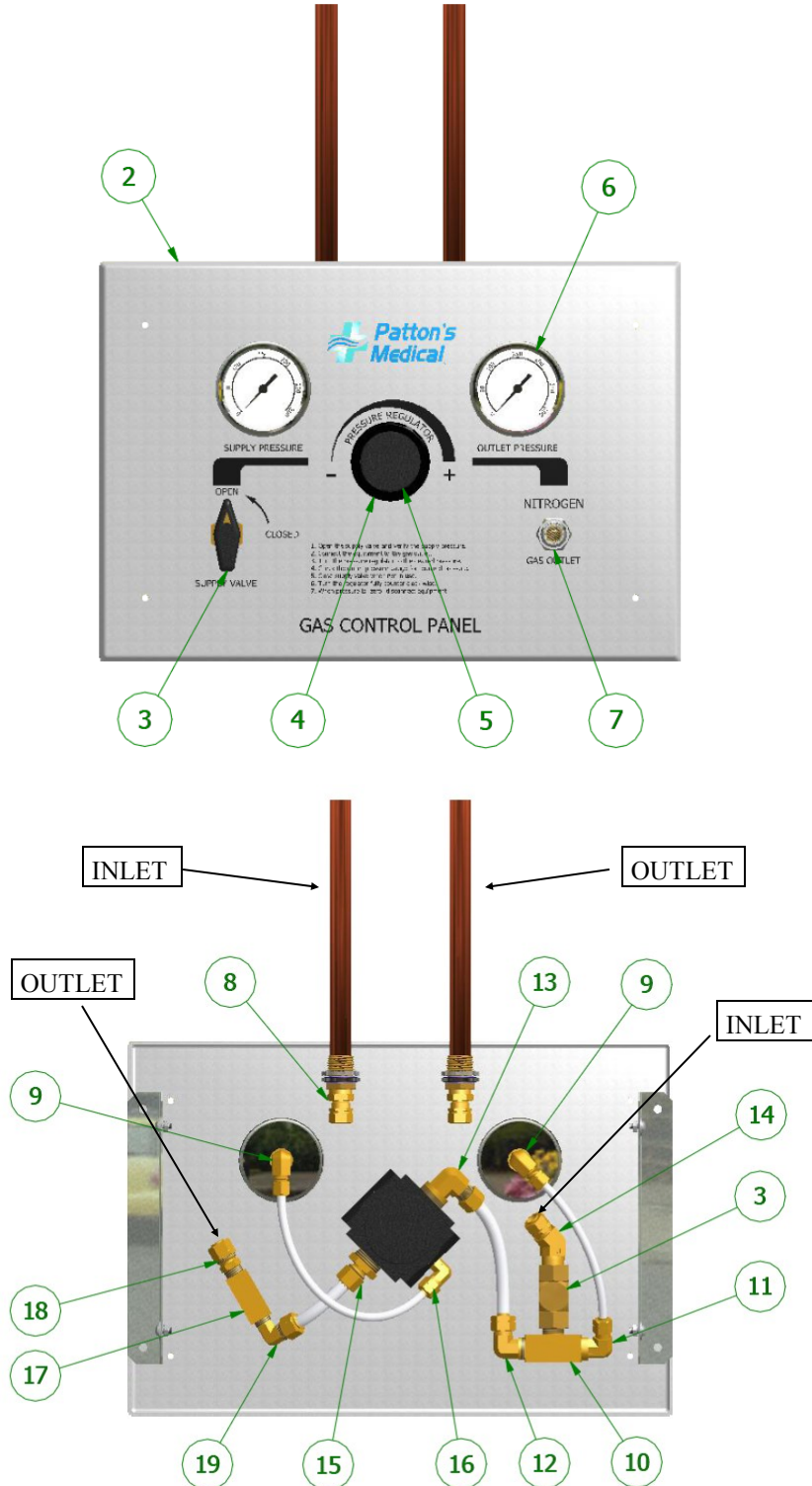
Mount the back-box into the wall and adjust the adjustable side mounting brackets so that the top of the box will be flush with the finished drywall. Connect the inlet pipe to the gas pipeline and the outlet to additional outlets (this is optional). The pipeline can now be pressure tested to the required testing pressure. The outlet high pressure hose is shipped with one end connected to the outlet and the other end connected to the inlet on the nitrogen back box. This will enable the installer to pressure test the complete pipeline, including remote outlets, without having to attach the front assembly.

To attach the control panel front assembly to the control panel back box you must first disconnect the hose from the male adapter that is attached to the inlet pipe on the control panel back box. Then loosen and remove the panel cap from the male adapter that is marked “output” on the back of the control panel front assembly. Attach the hose marked inlet to the male adapter marked inlet on the back box (avoid over-tightening inlet pipe). Mount the control panel front assembly to the back box with the enclosed machine screws.

## **4.0 Operation**

1. Turn the shut-off valve to the “Open” position
2. Verify that the correct supply pressure is available on the supply gauge.
3. Attach a tool to the DISS outlet and tighten the nut (do not over tighten) or HP “Saftey-Swing Coupling” outlet.
4. Adjust the pressure regulator to the required pressure by observing the outlet gauge.
5. Operate the surgical tool and observe the outlet pressure and adjust if needed.
6. When the control panel is not in use reduce the outlet pressure to “zero” and turn off the supply valve.

**5.0 Gas Control Panel Parts Layout**



## 6.0 Parts List

Item Number	Description	Part #
1	GCP Box Base (Not Shown)	05-06-009
2A	GCP Cover Decal - NIT	25-05-011
2B	GCP Cover Decal - INA	25-05-012
3	3/8" Ball Valve	13-01-089
4	Regulator Panel Nut AS3	22-01-038
5	1/2" NPT Regulator	22-01-017
6	2-1/2" O2 Cleaned Pressure gauge (0-300 psi)	PM-GA2.5-300
7A	DISS Demand Check - NIT	27-05-001-002
7B	DISS Demand Check - INA	27-06-001-002
8	Male Connector Fitting	15-07-096
9	Female Elbow Fitting	15-07-032
10	3/8" Brass Tee	15-01-077
11	1/4" x 3/8" Elbow Tubing	15-07-004
12	3/8" x 3/8" Elbow Tubing	15-07-006
13	3/8" x 1/2" NPT Male Elbow Tubing	15-07-007
14	3/8" x 3/8" NPT Male 45° Elbow	15-07-009
15	3/8" Tube x 1/2" NPT Male Connector	15-07-097
16	1/4" x 1/4" Elbow Tubing	15-07-003
17	1/4" Brass Tee	15-01-062
18	3/8" Tube x 1/4" NPT Male Connector Tubing	15-07-095
19	3/8" x 1/4" Male Elbow Tube	15-07-005

# NOTES

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