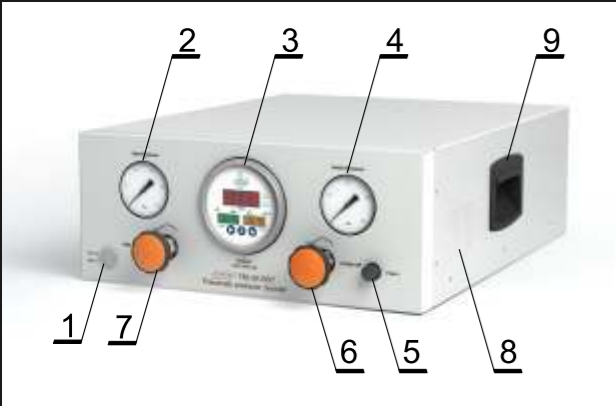
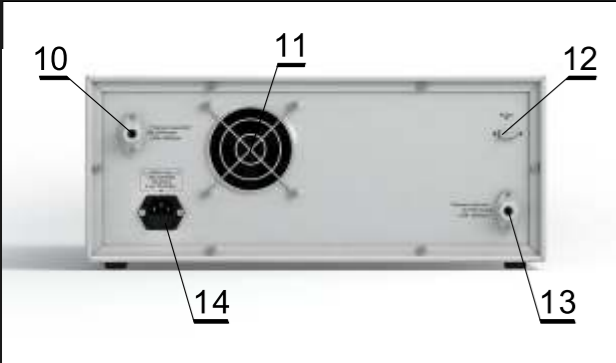


Configuration

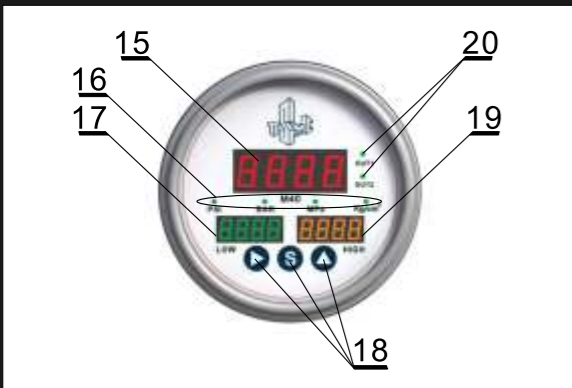


1. Power on-off
2. Inlet pressure meter
3. Set pressure indicator
4. Outlet pressure meter
5. Outlet vent valve
6. Outlet pressure shutoff valve
7. Inlet pressure shutoff valve
8. Cooling fan in take
9. Handle



10. Pressure outlet port
(1/8" BSP female, 20~260bar)
11. Cooling fan
12. RS232 communication port
13. Inlet pressure port
(1/8" BSP female, 20~150bar)
14. Power supply socket:
(90~250)VAC, (50~60)Hz

Pressure set panel







15. Current pressure value
16. Pressure unit
(push the button  change and select units)
17. Lower pressure limit
18. Function button: , , 
19. Upper pressure limit
20. Relay status indicator

Figure 1-1 Pressure set panel

Overview

ADT780-3K-BST air pressure source uses electric driven pumps to generate positive pressure. It can boost pressure from (20~150) bar to (20~260) bar. This system supplies a steady and reliable air source for Additel 780 series pressure controllers.

Specification

- > Inlet pressure range: (20~150) bar
- > Outlet pressure range: (20~260) bar
- > Safety valve release pressure: (270 ± 5) bar
- > When the set pressure is higher than inlet pressure, the booster starts to increase pressure. However, when the set pressure is lower than inlet pressure, the inlet pressure vents to a controllable pressure.
- > When the actual pressure is below the lower limit of set pressure, the booster starts to increase pressure. But when the pressure is higher than upper limit of set pressure, the booster will stop controlling pressure.
- > Media: Dry and clean air or nitrogen.
- > Inflow volume: 500ml/min
- > Power supply: (90~250) VAC, (50~60) Hz, 500W max
- > Dimension: 23.9" X 17.8" X 7.3" LWH (607 X 452 X 185mm)
- > Pressure outlet/inlet port: 1/8" BSP female thread

Safety Information & Cautions

- > Please read the user manual before operation.
- > Before use, ensure outlet connections are secured tightly.
- > Before making any connections ensure the unit is vented.
- > During in transport, please open the inlet shutoff valve and outlet shutoff valve.
- > Ensure there is room for ventilation around the unit to ensure proper airflow.
- > Avoid use in dusty, wet, flammable, and explosive environments.
- > Do not put the device under direct sunlight for a long time.



Additel 780-3K-BST

Booster User Manual

[Version No.: 1509V01]



Operation

1.1 Preparation

- Ensure the pressure on the inlet and outlet meters are not over the desired pressure and vent if necessary.
- Close the inlet shutoff valve and outlet shutoff valve. Then open the vent valve.
- Connect the booster with air supply source and power supply and pipeline routine. Check the cooling fan to ensure it is working.
- Open the inlet shutoff valve and close the vent valve.

1.2 Set pressure

Power on the pressure booster and the display will illuminate.

1.2.1 Selecting the pressure unit

Push the button **S** to select the desired pressure unit between “psi” , “bar” , “MPa” and “kgf/cm²”

1.2.2 Set the lower/upper limit

- Refer the figure 1–1, press and hold button **S** . The left digit on the lower limit will flash.
- The flashing digit can now be set by using the **▶** button which will increment the selected number. Push the **▲** button to select the desired digit to be changed.
- Press the **S** button to exit the menu.
- To completely vent the system, power off the pressure booster and open the vent valve.

Note: The lower limit value must be less than upper limit value.

1.2.3 Lock/unlock the display

Press and hold the button **▶** to enter lock mode. The LED displays “Loc” see figure 1–2. This means all display buttons are locked. Press and hold the button **▲** to unlock the display. The LED displays “unL” see figure 1–3. This means the display can be operated as usual.

1.2.4 Pressure zero

To zero the pressure measurement, ensure the booster is vented to atmosphere and simultaneously press **▶** and **▲** . The displayed pressure will change to zero when the process is complete.

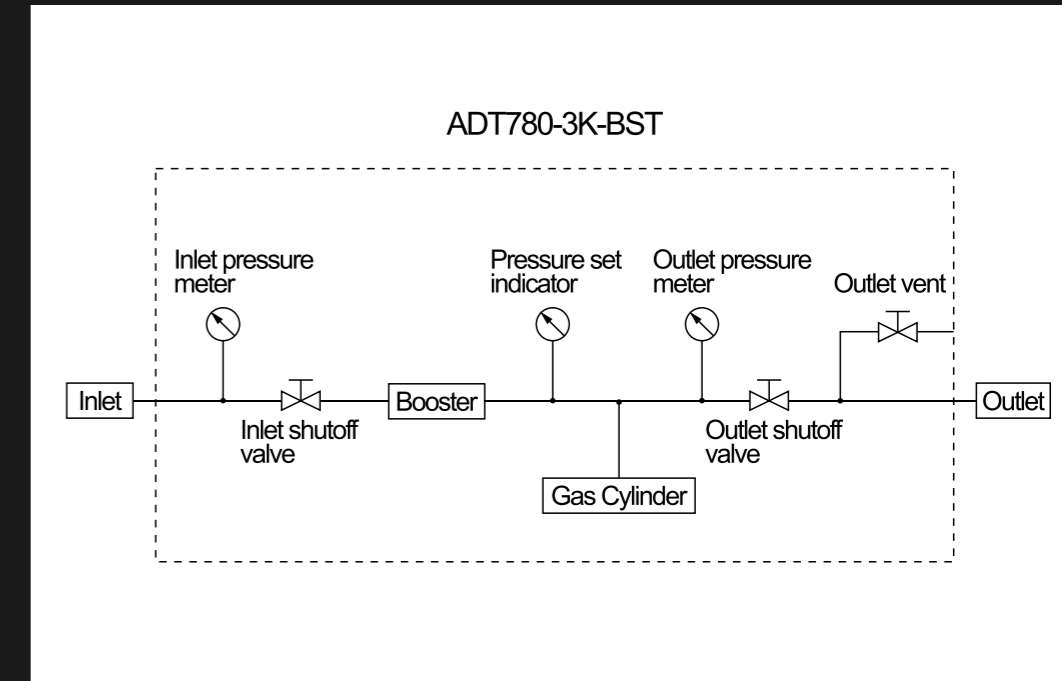


Figure 1-2 Display Lock Mode



Figure 1-3 Display Unlock Mode

Drawing



Remark:

A: Additel has made a concerted effort to provide complete and current information for the proper use of the equipment. The product specifications and other information contained this manual are subject to change without notice.

B: Above pictures are just for reference.

Additel Corporation, USA
2900 Saturn Street #B
Brea, CA 92821, USA
Phone: 714-998-6899
E-mail: service@additel.com
Website: www.additel.com