

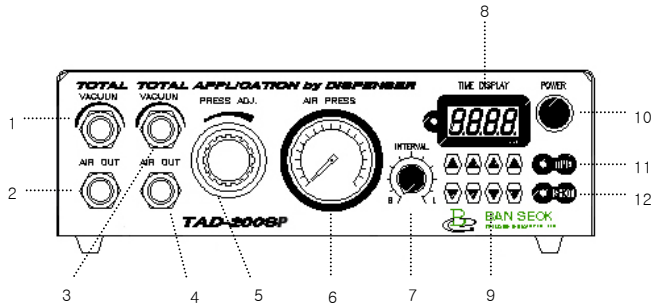
TAD-200SP
Dispense Controller
Manual

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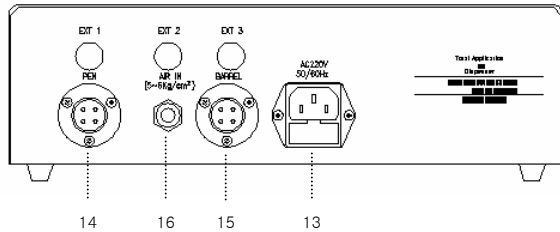
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1. Parts and Description



«Figure 1 : Frontage»



«Figure 2 : Backside »

1. Pickup Pen Vacuum
2. Pickup Pen Air Outlet Port
3. Barrel Vacuum
4. Barrel Air Outlet Port
5. Air Pressure Regulator
6. Air Pressure Gauge
7. Time Interval Set
8. Digital Time Display
9. Time Control S/W (0.01 ~ 99.99 sec.)
10. Power S/W
11. Time On/Off Button
12. Shot Button
13. Power Connector and Fuse Box
14. Foot or Finger S/W Connector (Barrel)
15. Foot or Finger S/W Connector (Pickup Pen)
16. Air Inlet (Main Air Port)

Specification

Type	Air Cartridge Type
Model	TAD - 200SP
Voltage	AC110/220V 50/60Hz 1.0A
Pressure Air	4 ~ 6kg/cm ²
Solenoid Valve	2Way 3Port Valve / DC 24V (2pcs)
Response speed of Solenoid Valve	20 ms
Timer Range	0.01 ~ 99.99 sec
Weight	3.5kgs
MEASUREMENT	280mm x 186mm x 81mm

Set-up & Operation

Set-Up

Connect Air hose

- Connect the main air hose from the compressor into the air inlet port on the rear panel of controller. (please see Figure 1., no.13)

Electrical Connection

- Please check whether the voltage is AC 220V or 110V before connecting. (Figure 1., no.11)

Connect the Foot / Finger S/W (Barrel)

- Connect the foot or finger switch for barrel into the connector on the rear panel of the controller (Figure 1., no.12)

Connect the Foot / Finger S/W (Pickup Pen)

- Connect the foot or finger switch for Pickup Pen into the connector on the rear panel of the controller (Figure 1., no.12)

Connect the Barrel air hose

- Connect the barrel air hose (♂ Coupler) into the barrel air outlet port (♀ Coupler) on the front panel (Figure 1., no. 2). Push it until you hear a sound with a click.
※Note : When disconnect the Barrel air hose, please pull the air hose coupler(♂) body slowly then it will depart from the coupler (♀) of air outlet port.

Connect the Pickup Pen

- Connect the Pickup Pen (♂ Coupler) into the Pickup Pen Air outlet port (♀ Coupler) on the front panel. Push it until you hear a sound with a click. (Figure 2., no.1)

Pickup Pen Pad

- Put the pickup pen pad into the end of pickup pen.

Power on

- Turn the power on. (Figure 1., no.8)

Operation

Setting the Main Air pressure (Auto / Manual Operation)

- Set the main air pressure to 5 ~ 6 kg/cm using the air pressure regulator on the compressor or any other air supply source.

Setting the Dispensed deposit size (Auto / Manual Operation)


- The deposit size is determined by different air pressure, time settings and tip gauge
 - a. needle gauge (Needle)
 - b. air pressure (Air pressure regulator)
 - c. time (Timer)

Select the Needle (Auto / Manual Operation)

- Select the right size of needle.
- If the needle is too thin for application of high-viscosity material, the material may drip or ooze at the end of dispensing cycle.

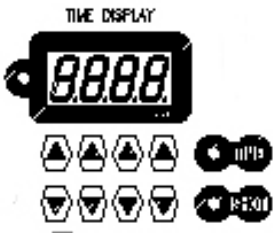
Setting the Barrel air pressure (Auto / Manual Operation)

- Set the barrel air pressure by using the air pressure regulator on the front panel of the controller.
- High viscosity material needs high air pressure.
- Low viscosity material needs low air pressure.

Air pressure regulator	<p>Low Pressure High Pressure</p> <p>← →</p> <p>PRESS. ADJ.</p> 	<p>Unlock the pressure regulator by pulling it and set the pressure by turning the regulator to the right and left.</p> <p>After the desired air pressure is setted, please push the regulator (Lock-up) < Recommended Air pressure ></p> <p>Low viscosity : ~ 2kg Medium viscosity : 2 ~ 4kg High viscosity : 4kg ~</p> <p>Please adjust the air pressure watching the dispensed deposit size.</p>
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Setting the Time (Automatic Operation)

Set the time with ▲ ▼ button until the desired amount is dispensed .

<p>Function :</p> <p>Select Mode Auto & Manual</p> <p>Setting the Time</p>		<ol style="list-style-type: none"> Select 'Auto' and 'Manual' mode with Time button. <p>* Auto mode : Timer on * Manual mode : Timer off</p> <ol style="list-style-type: none"> You can set the time with ▲ ▼ button. While you set the time, the number on the display will be twinkled. To fix the time for continuous dispensing, please wait 2 seconds after setting the time. Or, press Time button.
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Foot / Finger S/W or Shot button

Check whether the desired deposit size is setted by using Foot/Finger S/W or pressing the Shot button.

Effects of pressure / time / needle

Thicker more viscous liquids, like pastes or greases, will require either more pressure, longer time or larger gauge tips.

Thinner less viscous liquids, like cyanoacrylates or thinners, will require either less pressure, shorter time or smaller gauge tips.

Higher pressure and short time cycle will increase speed of dispensing and higher output

Lower pressure and longer time cycle will allow more accuracy in deposit size.

Please choose the correct tools and the appropriate factors considering above for getting high quality dispensing and operation efficiency.


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Control the Barrel Vacuum & Pickup Pen Vacuum

3-1. Barrel Vacuum - Auto / Manual Operation

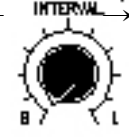
When you dispense low to medium viscosity materials, it offers precise control over flow rate and shut-off that prevents oozing or dripping at the end of dispensing cycle.

Turn the 'Vacuum pressure dial' to the left and right slowly if the material drips or is dewed at the end of tip (needle) until you can see the material can not be oozed at the end of dispensed.

Control the Barrel Vacuum	<p>Vacuum Pressure High Low</p> <p>← →</p> <p>VACUUM</p> 	Control the vacuum by using the vacuum dial.
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4. Setting the Time Interval (Automatic Operation)


Set the interval. Turn the S/W to the right or left one by one division until the Desired interval is setted.

Time Interval Set Dial	<p>Vacuum Pressure High Low</p> <p>← →</p> <p>INTERVAL</p> 	If you need time interval between dispensing in Automatic mode, set the interval from 0.01 ~ 3.99 sec. & 0.01 ~ 5.99 min.
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5. How to use Pickup Pen

This is the tool to pick and place a small component. Put the Pickup Pen Pad into the end of Pickup Pen.

To pick a object, press the Finger/Foot S/W. While you are pressing the Finger/Foot switch, the pickup pen is picking the object. (Vacuum on)

<p>Control the Pickup Pen Vacuum</p>	<p>Pickup Pen Vacuum Pressure</p> <p>High Low</p> <p>← VACUUM</p> 	<p>Control the vacuum by using the vacuum dial.</p>
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