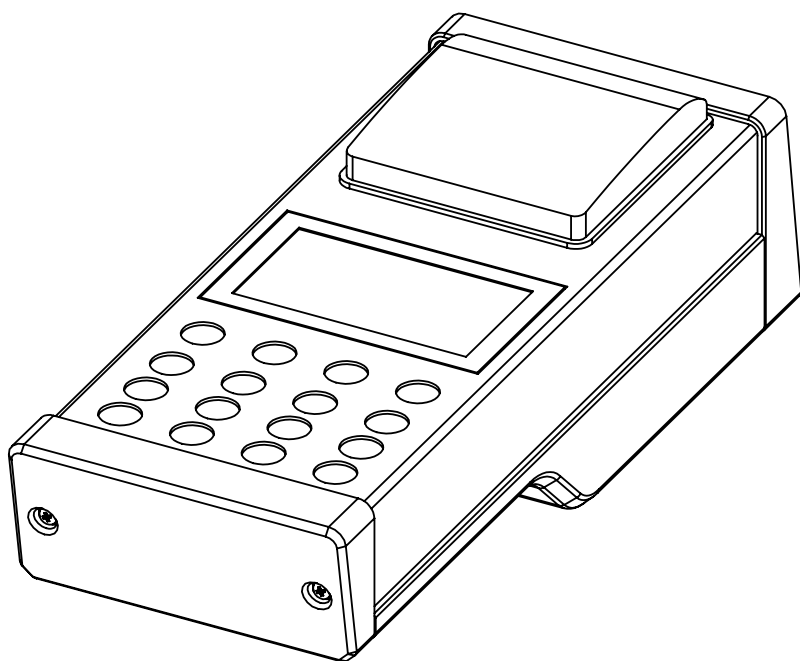


LABQUEST
BY **BOROSIL®**

PRINT PORTAL

OPERATING MANUAL
PNP010



DEALER :

THANK YOU NOTE

We Borosil, one of India's most customer oriented brands truly appreciate your business and express our gratitude for the trust you have placed on us.

We hope your choice serves you well in your scientific endeavors and aspire to have the pleasure of doing business with you for years to come.

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PACKING LIST OF PNP010

1. PNP010 unit..... 1 Nos.
2. 12VDC charger 1 Nos.
3. Thermal paper roll..... 1 Nos.
4. USB Type-B Cable..... 1 Nos.
5. Operation manual..... 1 Nos.

PRODUCT SPECIFICATIONS OF PNP010

- **Display:** Equipped with a 128 x 64 GLCD
- **USB Ports:** 1x USB Type-B
- **Memory:** 8 GB of internal storage
- **AlphaNumeric Keypad:** Enables intuitive data entry and system navigation.
- **Data Logging Capacity:** Capable of storing up to 32 million files
- **Printing:** Supports 57 mm thermal paper, with a maximum of 32 characters per line.
- **Power Supply:** 12V 5A DC Adapter
- **Real-Time Clock:** Battery-operated RTC with a lifespan of up to 5 years for accurate timekeeping.
- **Long Battery Life:** 4400 mAh battery provides up to 5 hours of continuous operation, supporting mobile and emergency use.
- **Customizable Print Format:** Allows personalized print layouts, including company/ lab name, and process parameters..
- **File Management:** Log files are efficiently stored to manage the memory for easy access.

SAFETY AND WARNING



Important operating and maintenance instructions.
Read the accompanying text carefully.



Potential electrical hazards.

Only qualified persons should perform procedures associated with this symbol.

- Equipment being maintained or serviced, must be turned off and locked off to prevent possible injury.
- Always follow good hygiene practices.
- Each individual is responsible for his / her own safety.
- Do not keep the unit on wet bench top.
- Do not clean the unit with wet cloth.
- Wipe the unit with dry cloth after usage.
- Ensure no fluid is spilled on the top surface of the unit.
- The unit should be plugged to standard 230 V 50Hz, 5A, 3pin power socket for charging.
- During charging the unit should be plugged into power socket having proper earthing.
- Do not keep the unit for charging overnight.

SAFETY INSTRUCTIONS

- Please do not wipe the unit with the water.
- The unit should be plugged to standard 12V DC adapter having proper earthing.
- Do not plug multi appliances into the same socket, this could cause overheating and the risk of fire.
- Do not bend the power cord or place heavy articles on it, this constitutes a fire hazard. If the power cord is damaged replace it immediately by the service engineer.
- Never run the unit showing any signs of damage. In doubt, consult the dealer/ service engineer.
- Improper Installtions and repairs may put the user at considerable risk.



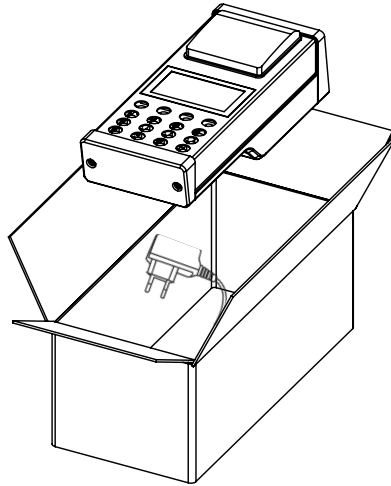
WARNING:

Inadequate earthing at the installation facility can lead to hazardous electrical shocks. The manufacturer is not liable for any injury or death resulting from electrical hazards due to faulty earthing in the lab.

Technical Instructions

- Printer should always plugged in with 12V DC adapter while using it.
- Use the unit on battery only for emergency purpose because the battery backup is for only 5 hours.

UNBOXING OF PRINT PORTAL



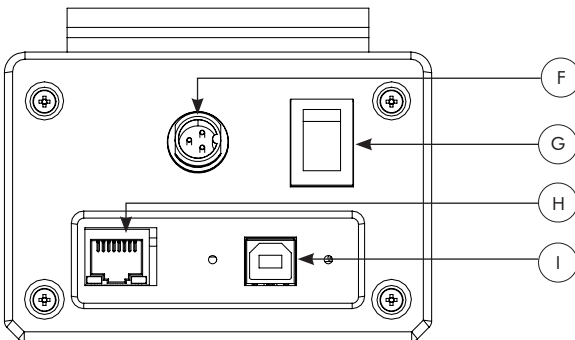
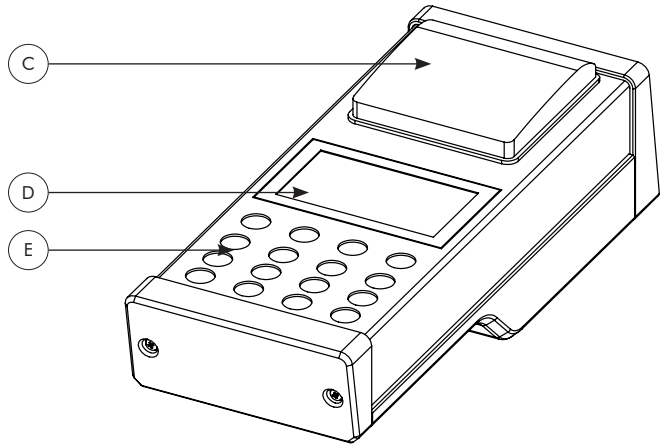
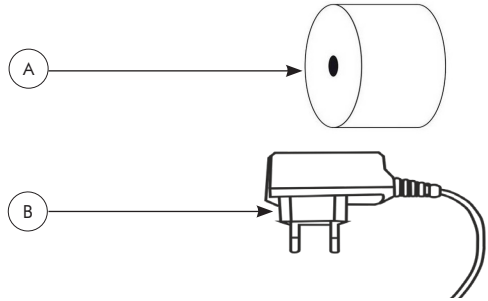
UNBOXING INSTRUCTION:

1. Place the carton box in the proper direction.
2. Check the box exterior for any damages.
3. Unbox the carton box from the top. If there is any physical damage found on the product, report to the dealer/ delivery agent.
4. Remove the accessories and the unit from the box safely.
5. Compare the in box items with the packaging list. If any of the items are missing, contact Labquest's Customer Service Department immediately.

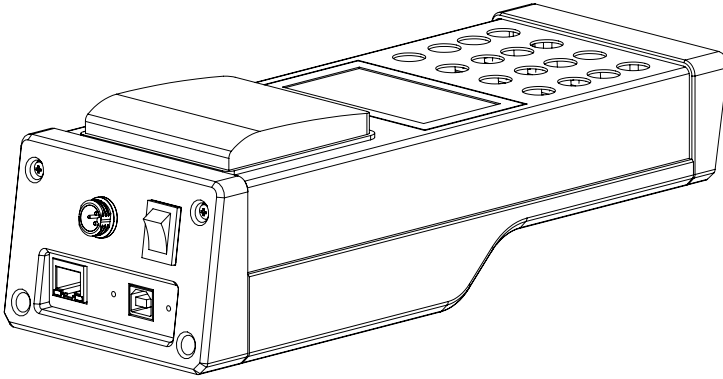
(Read manual before installation on the lab bench.)

PRODUCT IDENTIFICATION

- A. THERMAL PAPER
- B. 12V DC ADAPTER
- C. THERMAL PRINTER
- D. DISPLAY
- E. ALPHA NUMERIC KEYPAD
- F. 12V DC
- G. POWER SWITCH
- H. LAN CONNECTOR
- I. DEVICE CONNECTOR

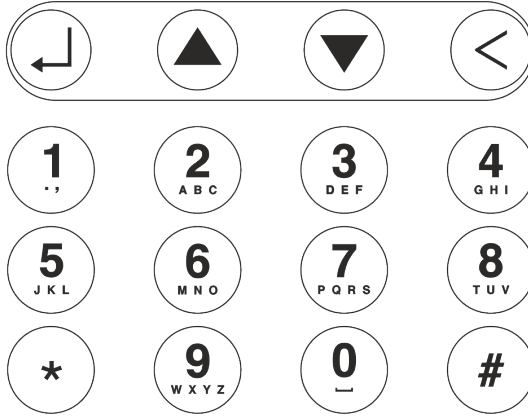







INSTALLATION PROCESS



1. Connect the 12V DC adapter to the power port of the Print Portal.
2. Place the unit near the instrument.
3. Ensure that the power switch is ON position.
4. The unit is now ready to use.

DESCRIPTION OF BUTTONS & FUNCTIONS

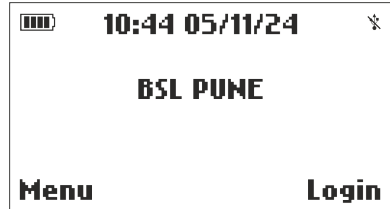


1. **ENTER :** 
 - Multifunction button that selects the function displayed on the bottom left of screen.
2. **UP :** 
 - Used to decrease the parameter values and to scroll up the display screen.
3. **DOWN :** 
 - Used to decrease the parameter values and to scroll down the display screen.
4. **BACK :** 
 - Multifunction button that selects the function displayed on the bottom right of screen.
5. **HASH :** 
 - Long press changes between the Upper, Lower, Title Case and Numeric input.
6. **ALPHA NUMERIC KEYPAD :**
 - It is used to enter different attributes in the unit.

GETTING STARTED

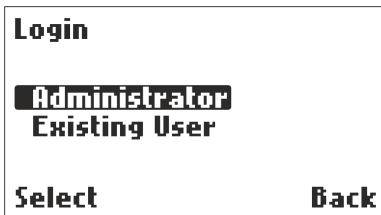
1. Setup and Installation

- Plug the 12V DC adapter into the device's power input connector.
- Connect the other end of the adapter to the AC mains (230V).
- Switch on the AC mains power and ensure that the power switch on the device is in the "ON" position.
- The home screen will appear on the display once powered on.



2. Login

- You can login either as an administrator or as an existing user.
- Select administrator.
- Enter default Password: 12345678
- User will see administrator written on the display after successful login.
- After logging in, switch on the water bath device.



3. Connecting USB

- Connect the USB cable between the waterbath and the printer.
- The printer will automatically detect and open a new process menu.

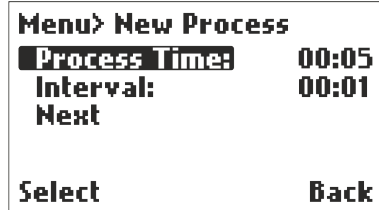
4. Configuring Process Parameters

- **Enter Process Data:**
- The user can now enter various parameters such as Sample ID, Process ID, and Product ID which can be configured in settings.
- After entering the details select "Next".



- **Setting Process Time and Log Interval:**

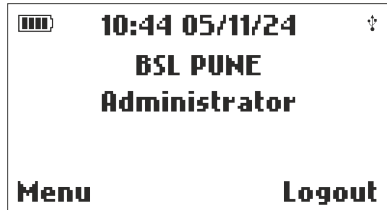
- Set the process time and interval time.
- Both the process time and interval time is in the HH:MM format
- Lowest log time that can be set is 1 minute while the longest interval is 60 hours.
- Adjust these times as needed, then press 'Next' to proceed.



5. Data Handling and Process Monitoring

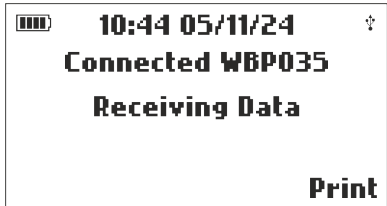
- **Home Screen Overview:**

- After setting the process time, the home screen will show a USB connection symbol(📶) on the top right corner.
- Ensure the USB connection symbol is visible before starting the process.



- **Data Receiving:**

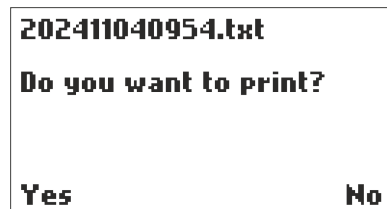
- The connected device's name will appear on the printer screen, and the message "receiving data" will be displayed.
- A print of last logged data can be taken by pressing the print button.



6. Printing Data

- **Printing Options:**

- At the end of the process, the printer will prompt the user to print the data.
- Choose 'YES' to Print the logged data or 'NO' to skip to the main menu.
- Sample print is shown in the below image.



```

PLANT/LAB           :XXXXXXXXXX
MACHINE NAME       :XXXXXXXXXX
EQUIPMENT ID      :XXXXXXXXXX
PRINTER SERIAL NO:
USER NAME          :XXXXXXXXXX
START DATE         :XXXXXXXXXX
START TIME         :XXXXXXXXXX

  TIME   SET TMP  PRC TMP   CTIME
HH:MM:SS XXXX.X  XXXX.X   XXXX
HH:MM:SS XXXX.X  XXXX.X   XXXX
HH:MM:SS XXXX.X  XXXX.X   XXXX
HH:MM:SS XXXX.X  XXXX.X   XXXX
HH:MM:SS XXXX.X  XXXX.X   XXXX
HH:MM:SS XXXX.X  XXXX.X   XXXX
HH:MM:SS XXXX.X  XXXX.X   XXXX
HH:MM:SS XXXX.X  XXXX.X   XXXX

STOP DATE          :XXXXXXXXXX
STOP TIME          :XXXXXXXXXX
PROCESS STATUS     :TERMINATED/
                   COMPLETE

                   END OF REPORT

DONE BY :          CHECKED BY :

```

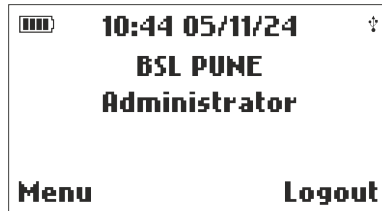
7. File Format

- The processed data is saved in the internal memory in the following format:

yyymmddHHMM.txt	
202411061231.txt	
yyyy	Year
mm	Month
dd	Date
HH	Hours
MM	Minutes

FEATURES OF PRINT PORTAL

Home Screen



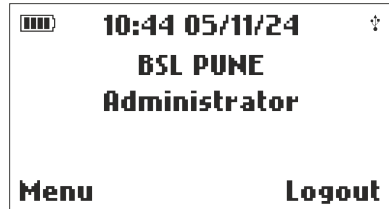
- 1. Time and Date:** Displayed in 24-hour format.
- 2. Plant/Lab name:** The display will show the name of the plant or lab, such as "BSL Pune."
- 3. Logged-in user:** If a user is logged in, their username (e.g., "Administrator") will be shown.
- 4. Multi-function Buttons:** The text in the bottom corners of the screen indicates the actions for the corresponding buttons.
- 5. USB Device Status:** When a USB device is connected, the cross mark on the USB symbol (⚡) will disappear.
- 6. Connected Devices:** If a device (e.g., Waterbath) is connected, a connected symbol(⚡) will indicate the connection.
- 7. Logout Option:** If a user is logged in, the option to log out will replace the login option. The right button allows the user to log out at any time.

Admin Login

- To log in as an administrator, enter the default admin password:
12345678.

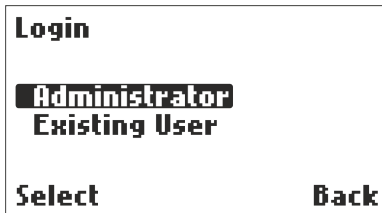


2. After logging in, the home screen will display additional menu options, including “Device Details.”



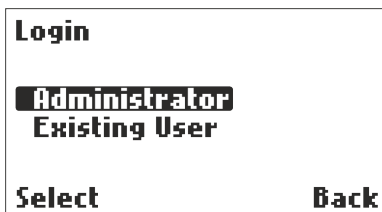
To Add New User

1. Login as Administrator.
2. Select “Menu” > “Device Details” > “Add New User”
3. Enter the new user ID, name, and password.
4. Press Enter to save the new user to the system.



User Login

1. Select “Login” > “Existing User.”
2. Enter your user ID and password, and press Enter to log in.



Change Plant/Lab Name

```

Menu
Device Details
New Process
Logged Data
Set Instru. ID
Select          Back
    
```

```

Menu>Device Details
Add New User
Plant/Lab
Product ID
Reset Admin Pwd
Select          Back
    
```

1. Log in as an administrator, then navigate to “Menu” > “Device Details.”
2. Select “Plant/Lab” and enter the name of your Plant or Lab.

```

M>D>Plant/Lab      123
Plant/LAB Name:
-
Enter              Back
    
```

Note: AlphaNumeric Characters can be used. For eg: BSL002

Customizing Parameters

```

Menu> Device Details
Plant/Lab
Product ID
Reset Admin Pwd
Select Parameters
Select          Back
    
```

```

M>D>Select Parameters
User ID          
SOP No.         
Sample ID       
Process ID      
Select          Back
    
```

1. Navigate to “Menu” > “Device Details” > “Select Parameters.”
2. Check the parameters you want to include. These parameters will appear in the “New Process” menu and will be included in the final print.

Printing Logged Data

1. Go to "Menu" > "Logged Data" and select the date of the process you wish to view.

```
Menu> Logged Data
Date: 04 /11 /20
Enter                               Back
```

```
Menu> Logged Data
Date: 04 /11 /20
Total Logs Found: 4
To see log files, Press
Enter
Enter                               Back
```

2. Navigate through the processed data for the selected date using the up/down buttons. Select the desired file and press "Print."

```
Menu> Logged Data
Date: 04 /11 /20
202011041054
202011041013
202011041051
Print                               Back
```

```
202011061931.txt
Do you want to print?
Yes                                 No
```

Set Instrument ID

1. First, connect the instrument to the print portal via USB cable.
2. Navigate to "Menu" > "Set Instru. ID."

```
Menu
Device Details
New Process
Logged Data
Set Instru. ID
Select                               Back
```

3. Enter the desired instrument ID and press Enter to save.

```

Menu> Set Instru. ID  123
Enter Instrument ID
ID: _
Select                Back
    
```

Set Time and Date

1. Navigate to "Menu" > "Device Details" > "Set Time N Date."

```

Menu>Device Details
Product ID
Reset Admin Pwd
Select Parameters
Set Time & Date
Select                Back
    
```

```

M>D>Set Time n Date
Date: 06 / 11 / 24
Time: 11 : 03
Select                Back
    
```

2. Use the up/down buttons to set the current time and date.
3. press Enter to save your settings.

PROCEDURE RECOMMENDATIONS FOR SMOOTH OPERATION

- **Printing Recommendations:**

- » Recommended Paper : **57mm Thermal Paper Roll**
- » If you are unable to print the log, ensure the power adapter is connected and switched on.

- **Data Logging Recommendations:**

- » Log points calculation :
 - * Formula : **Total Process time (in MM)/Interval(in MM)**
 - * Example:

Total Process Time	: 24 hours > 24x60 = 1440 Minutes
Log Interval	: 2 mins
Total Log Points	: 1440/2 = 720 data points
- » Recommended max logged points : **1200 datapoint**

- **Connectivity Recommendations:**

- » Only use the provided cable to connect the printer with the water bath.
- » Avoid tightly coiling USB and power cables as it can introduce electro-magnetic interference (EMI) or cause slight resistance, leading to potential data loss or reduced charging efficiency.
- » Do not bend the power or data cables excessively. Keep them organized and ensure they are not under tension to avoid wear and tear.

- **Avoid Hazardous Areas:**

- » Keep the unit away from magnets and any devices that emit high heat to avoid interference or damage.
- » Do not expose the device to water or excessive humidity. Ensure the surface where the device is placed is dry.

- **Stable Power Supply:**

- » Always use a power source with proper voltage and grounding.

TROUBLESHOOTING

1. The unit is not turning ON

- Check if the battery is drained by connecting the charger to the printer.
- If the printer is not charging check whether the blue LED on the adapter is glowing.

2. If the Printer is not printing

- Check if the adapter is connected to the unit and receiving power.
- Check whether the thermal printer paper is finished or not, If yes then install a new roll in the printer.

3. Improper Print

- Reprint the logged data after power cycling the unit.
- Check whether the thermal printer paper is installed correctly in the printer head.

4. Connection Interrupt

- Check for any loops or tension in the USB cable between the printer and the instrument.
- Check for any magnetic or heating element near the Printer unit and keep it at a distance from the element.
- Disconnect the USB and turn off the power of Print Portal and the instrument, connect the USB and turn on Print Portal first, after the bootup, turn on the instrument.



WARRANTY REGISTRATION

Please handover this registration form to the distributor from where you have purchased this product. The warranty is valid only when this warranty registration form is received by us within 30 days from the date of purchase.

Product: PNP010

Product Sr. No.: _____

Date of Invoice : _____

Invoice No.: _____

Customer name & address

Name : _____

Address: _____

Telephone: _____

E-mail: _____

Customer sign & seal

Dealer name & address

Name : _____

Address: _____

Telephone: _____

E-mail: _____

Dealer sign & seal

BOROSIL® Scientific

STATEMENT OF WARRANTY

Borosil confirms that this product has been manufactured in accordance with our technical specifications and quality requirements.

- Borosil warrants the product from manufacturing and workmanship defects for a period of 12 months from the date of invoice.
- Warranty is void, if apparatus is not operated as prescribed in the operating manual supplied along with the unit.
- To be covered under warranty.
 - » Unit's adapter have to be connected to standard 230V 50Hz, 5A wall socket with the proper earthing.
 - » Corrosion damage on the printer body due to chemical spillage will not under acceptable under warranty.
 - » Warranty does not cover rust and physical damage to metal parts due to corrosive environment in the lab.

Terms:

- » In the event of malfunction due to defect, the buyer will have to follow the Borosil's service process.
- » Certain units can not be serviced / rectified at the buyer's place and the units may have to be brought to Borosil's service center as advised by Borosil's representatives.
- » In no event shall Borosil be liable for consequential or incidental damages.

INVOICE DATE	BUYER	AFFIX SERIAL NUMBER
INVOICE#		
Dealer name & address		Dealer sign & seal

BOROSIL SCIENTIFIC LIMITED

Corporate Office : 1101, Crescenzo G-Block, Opp. MCA Club, Bandra Kurla Complex, Bandra (E), Mumbai-400051, India.

: MANUFACTURED BY :

Borosil Scientific Limited

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Indialand Global Industrial Park,
Hinjewadi Phase 1, Pune - 411057

Write to us on above address.

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Maharashtra, India

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Phone : 1800 22 4551 | Email : lab.support@borosil.com

Website : www.borosilscientific.com