

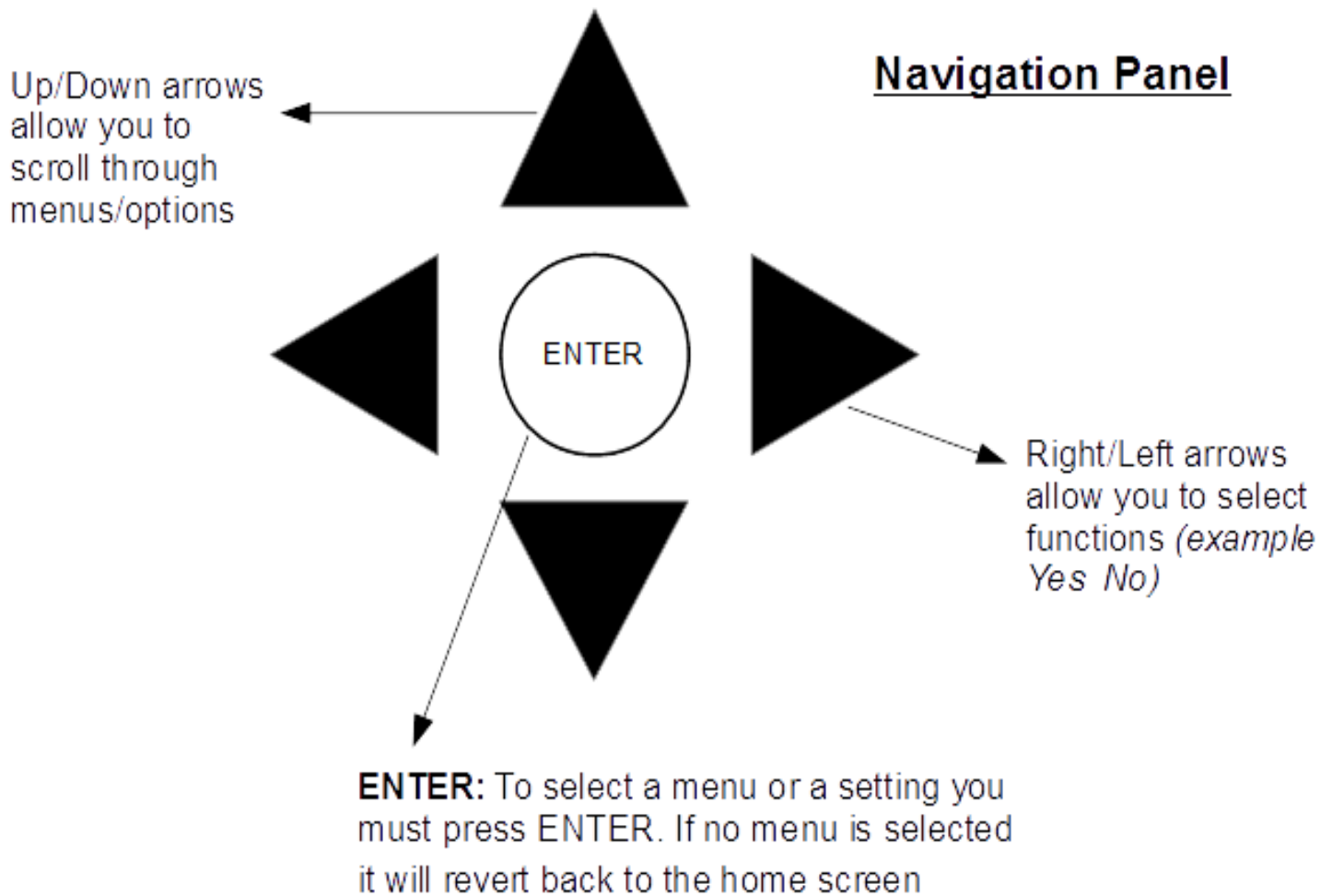
NexPump Ai Notification Guide



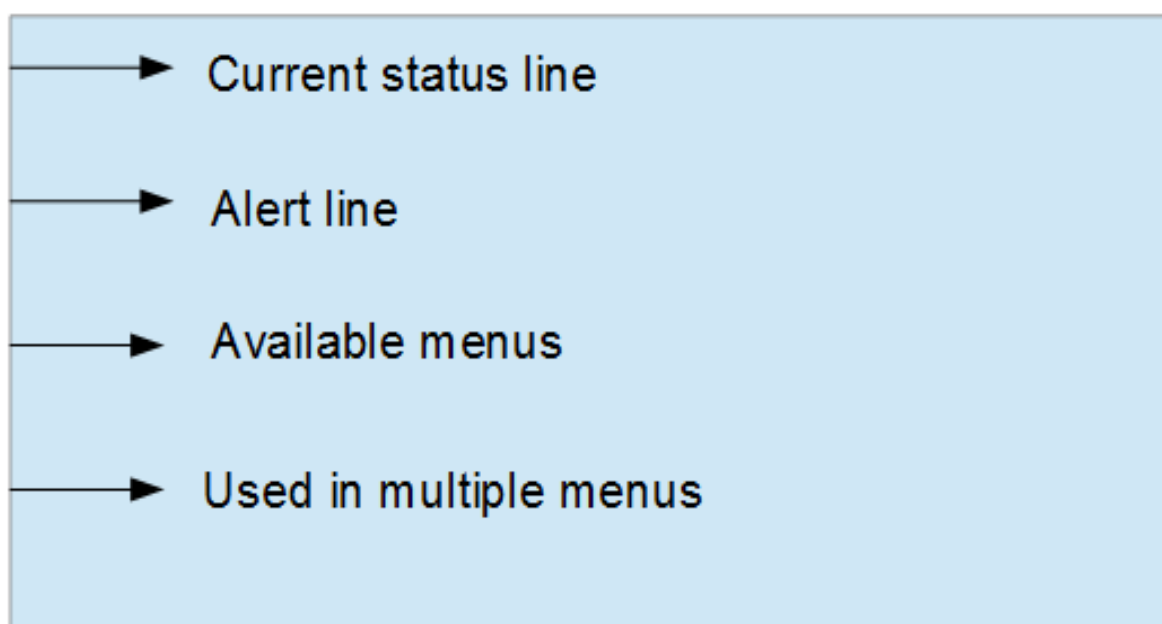
<p>NexPump, Inc. Phone: 630-365-4639 Fax: 630-365-6919 Email: support@nexpump.com Web Address: www.nexpump.com</p>	<p>Notification Guide 7.00.0000 NexPump is a Registered Trademark of NexPump, Inc. Copyright © 2003-2018 NexPump, Inc., All Rights Reserved Patent Pending</p>
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TABLE OF CONTENTS

Navigation Panel	3
Configuration Menu	4
Advanced Menu	5
Reset Menu	.....	6
Information Menu	.....	7
LAN Monitor	.....	8
Wired Network Setup	.....	9
Wireless Network Setup	.....	9
WiFi Manual Configuration Mode ..		10
WiFi Config Mode	.....	12
WPS Configuration Mode	.....	13
Remote Access Setup	.....	14
NexPump Internet Screens	.....	14
Notification Status	.....	15
Alerts	.....	15
Ai Notification System	.....	15
Appendix	.....	16
Open Source Licenses	.....	17



Display Screen



Configuration Menu

Note: These screens are only available with the notification units.

Send Status Email
? Yes No

Send Test Status Email

Used to send a test status Email. Send status is available on the 'Email Web Page' under 'Last Send Status'.

LAN Monitor ? On Off

LAN Monitor

Turn on LAN monitor to continually monitor the LAN connection. When the LAN is not detected for approximately six hours, unit will sound an alert.

Wifi Manual Config
? On Off

Wifi Manual Config

This will automatically scan for wireless networks

WIFI Config ? On Off

WIFI Config Mode (Wireless module ONLY)

Use WIFI Config Mode to setup your own Wireless Configuration. See WIFI Configuration

WPS Config ? On Off

WPS Config Mode (wireless module ONLY)

Use WPS Config Mode to setup your own wireless configuration. This is an automatic mode for configuration between the NexPump and you router.

See WPS section in WIFI configuration for more information

Advanced Menu

Note: These screens are only available with the notification units.

Lock Configuration
? On Off

Lock\Unlock Configuration

Lock configuration to prevent accidental changes.

Unlock configuration to make changes.

Press ENTER when cursor is over desired position.

DHCP ? On Off

DHCP

'DHCP' stands for 'Dynamic Host Configuration Protocol'. By default this is turned on and allows for the Network IP Information to configure automatically. Recommended to be enabled.

Press ENTER when cursor is over desired position.

E-Recurring ? 02

Email Status

Set this for the interval to receive Status Emails. Each number is the number of Self-Tests which occur every 12 hours. In the screen the Recurring amount is set to '02', which will send a status email after every two Self-Tests or every 24 hours.

Use the left and right arrows to adjust the number. The number will increment from '0-28', Press ENTER to select.

00 – Disables Status Email

Email Port? 025

Status Email Port:

Used to set port for sending Status Emails

Valid values are 25 and 587

Use the left, right arrows to change the number. Press ENTER to select.

HTTP Port ? 80

HTTP Port

Sets HTTP port values: '80','81','82','83','84','00'. Defaults to Port '80'. Use left, right arrows to select port. Range is 80-84,

00 – Disables HTTP

Press ENTER to select.

TFTP Update ? On Off

TFTP Update

TFTP Update turns on TFTP firmware or image updates using the TFTP protocol. This should only be turned on to update firmware or web image images and then turned off. The HTTP update process is the preferred method to update firmware or web images.

Press ENTER when cursor is over desired position.

Reset Menu

Note: These screens are only available with the notification units.

Clear Intruder ? Y N

Clear Intruder Detection

If an invalid password is entered more than 10 times in 15 minutes, the system will automatically prevent access to the NexPump web interface for 15 minutes. If you want to access the web interface before that you can clear the intruder detection through this menu item.
(Displays only if intruder is detected)

Factory Reset ANiMod
Confirm ? Y N

Factory Reset ETH Module

Resets ANi module to factory defaults. All configuration will be lost.

Reset ETH Confis?
Reset Info ? Y N

Reset ETH Configuration

Select 'Y' to Reset IP configuration to defaults.
Defaults: Address-'192.168.1.105', Mask-'255.255.255.0'
Gateway-'192.168.1.51', DNS-'192.168.1.51', DHCP-'On',
HTTP Port-'80', Clears All Email and WIFI (If Installed)
Information

Reset Web Password?
Confirm ? Y N

Reset Web Username and Password

Resets the username and password to defaults.
Defaults: Username-'NPAdmin', Password- Serial #.

Restart ANiMod ? Y N

Restart ANiMod

Restarts ANi module if needed.

Information Menu

Note: These screens are only available with the notification units.

Displays WIFI network name the NexPump is connected to.

```
Network Name:  
TestNetwork
```

Displays configured IP address and IP mask.

```
IP Address:  
192.168.1.100  
IP Mask:  
255.255.255.0
```

Displays configured IP gateway and DNS address.

```
IP Gateway:  
192.168.1.100  
DNS Address:  
75.75.75.75
```

Displays configured HTTP port.

```
HTTP Port:=80
```

Displays current user name and password for the NexPump unit.

```
Web User:  
NPAdmin  
Web Password:  
NPB01234567
```

Displays configured Status Email to address and Email host address.

```
ETo:  
test@gmail.com  
EHost:  
smtp.gmail.com
```

Displays configured Status Email user name and password.

```
EUser:  
test@gmail.com  
EPass:  
Test1234
```

Displays configured status Email recurring time, port and last send status.

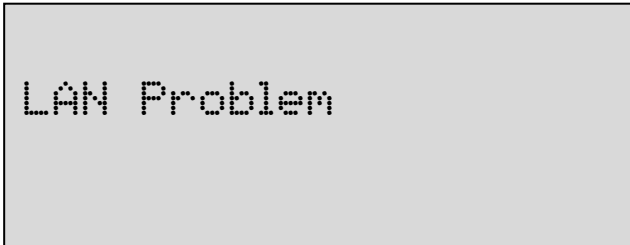
```
ERecurring:=14  
EPort:=587  
ELast:Success  
05-05-2018 12:00PM
```

Displays last ten alerts on the system including date and time. To select move cursor over Y and press ENTER.

```
Alert History  
Display ? Y N
```

LAN Monitor Operation

LAN Monitor when enabled will monitor the LAN or Router connection and alert you when it no longer detects a connection. LAN Monitor by default is set to the Off position. Once a LAN or Router Connection is no longer detected an alarm will sound, in addition the display alert as below.



Notification Module:

In the event of a Notification Module alert the display will show as the screen below.



LAN Disconnected Warning:

(For the Wired Internet Module the message below will display when the LAN Cable is not detected.)



(For the Wireless Internet Module the message 'WIFI' will toggle when the Module is not connected to a wireless router).



In addition, the following WIFI Connection Code will also display. The code will be in a format of Cxx-Sxx.
Cxx – Code; Sxx – Sub Value

Code '00'

Still performing initial connection attempt.
There is no sub value for this parameter.

Code '01'

Connection Successful
There is no sub value for this parameter.

Code '02'

Connection failed.
Sub values:
'02' – Join Failure
'03' – Authentication Failure
'04' – Association Failure
'05' – WEP Handshake Failure
'06' – PSK Calculation Failure
'07' – PSK Handshake Failure
'08' – AdHoc Join Failure
'09' – Security Mismatch
'10' – No Suitable AP Found

Code '03'

Connection Temporarily Lost
Sub values:
'01' – Beacon Timeout
'02' – Deauth Received
'03' – Disassociate Received

Status Code '04'

Connection Permanently Lost
Sub values:
Same as Status Code '03'

Status Code '20'

Connection timeout.
A timeout occurred attempting connection. Will keep retrying.
There is no sub value for this parameter.

Status Code '20'

Connected but DHCP is not bound.
There is no sub value for this parameter.

Network Defaults:

IP Address – '192.168.1.105'
IP Mask – '255.255.255.0'
IP Gateway – '192.168.1.10'
DNS – '192.168.1.51'
HTTP Port – '80'
Username: 'NPAdmin' (Case Sensitive)
Password: Unit Serial Number (Case Sensitive)

Wired Network Setup

The NexPump wired internet module is an IEEE 802.3 compatible Ethernet device with a speed of 10/100Mbps and accepts a standard RJ45 LAN cable.

Step 1: Plug one end into the NexPump LAN port and the other end into your LAN router or hub. The 'Link LED' should be steady green and the 'Activity LED' should blink amber. If you do not see the LED's active check your hub or router.

Step 2: By default 'DHCP' is enabled and in most cases 'DHCP' should be enabled on your network.

Step 3: Select the information menu on the NexPump and retrieve the IP address of your NexPump.

Step 4: To access your NexPump enter the IP address from step 3 above. The default username and password is below:

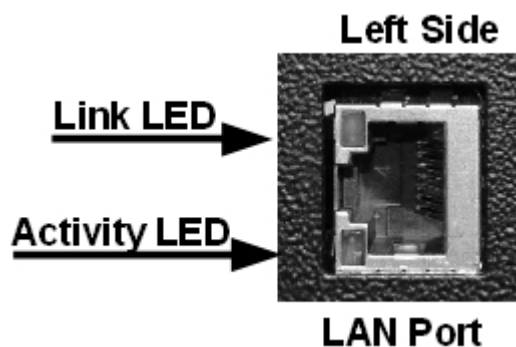
Username: NPAdmin (*username is case sensitive*)

Password: User Serial Number (*include letters/case sensitive*)

Step 5: You should change the username and password once you get access to the web interface. Password configuration is located at the bottom of the IP Config page.

You can also visit the NexPump website to view videos on network setup.

Important: If you want to be alerted of power outages you need to be sure an Uninterruptable Power Supply (UPS) is connected to your router or hub, in addition will operate for at least 45 minutes on battery. Check with your internet provider about internet use on power outages.



Wireless Network Setup

The NexPump Wireless Internet Module is a Wi-Fi 802.11g compatible device. The following will guide you in the setup so the NexPump can be connected to your household wireless router. You can also visit the NexPump website to view videos on network setup.

The wireless antenna comes disconnected and needs to be attached. The antenna attaches to the Antenna Jack located on the left side of the NexPump. The antenna screws on to the Jack and should attach easily (be careful not to strip the threads). Rotate and pivot (90 degrees) the antenna as it appears in the diagram.

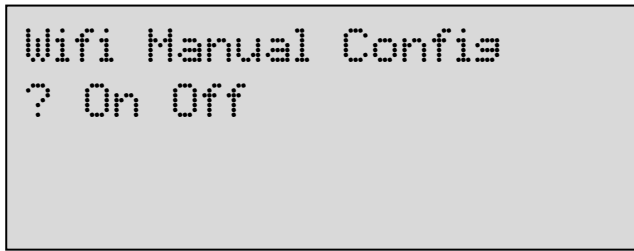
Important: If you want to be alerted of power outages you need to be sure an Uninterruptable Power Supply (UPS) is connected to your router or hub, in addition will operate for at least 45 minutes on battery. Check with your internet provider about internet use on power outages.

Wireless Connection to your Network

There are three methods of WIFI connection. The WIFI Manual Mode, WIFI Config Mode and the WIFI WPS Mode.

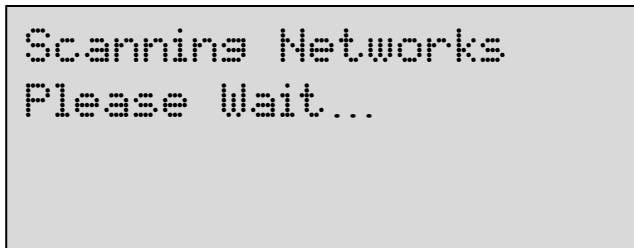


WiFi Manual Mode



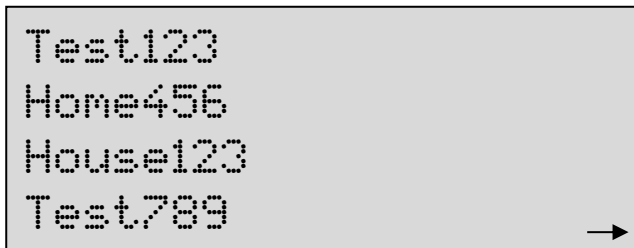
Step 1: Turn on Wifi Manual Config

To turn the wifi manual config 'on', you will need to access the configuration menu. Use the up, down arrows on the navigation panel to find 'configuration menu.' Select by pressing ENTER. When you reach the screen below select 'On' by using the left, right arrows to move the cursor, then press ENTER.



Step 2: Find your Network

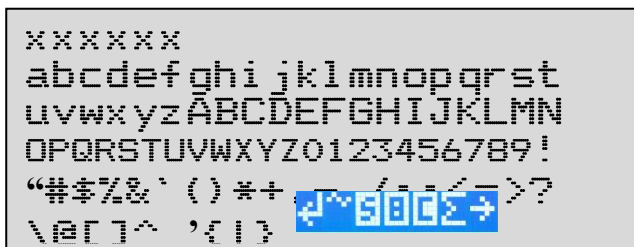
Once 'wifi manual config' is turned on you will see the screen 'Scanning Networks'. Soon after will be a list of available networks. If no networks are available the screen will say



Step 3: Select your Network

Once you see your network use the up, down arrows to move the cursor over your network. To select press ENTER.

Note: If you cannot find your network use the right arrow to display the next four networks. Use the left arrow to return to the previous four networks.



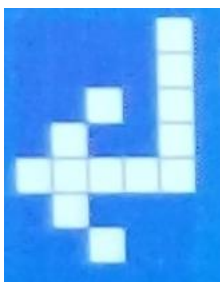
Step 4: Network Password

Once you have selected your network you will need to type in the network password. Use the up, down, left, and right arrows to move the cursor over the desired letters or symbols. To select press ENTER. Once finished select the 'Save' symbol and press ENTER.

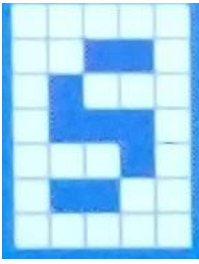
Note: You will see the password you are entering on the top line of the display. If your password is more than 20 characters the display on the first line will shift

automatically.

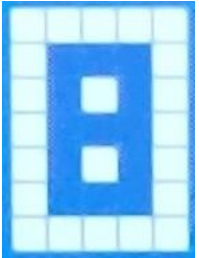
Highlighted above are the special characters. They are explained below.



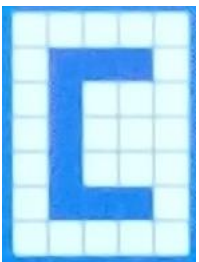
Save symbol- Must select this after entering password for system to connect.



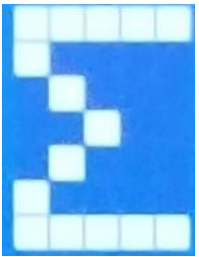
Space bar symbol- Will add a space between letters.



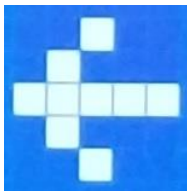
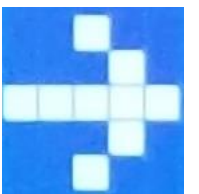
Backspace symbol- Will delete last character.



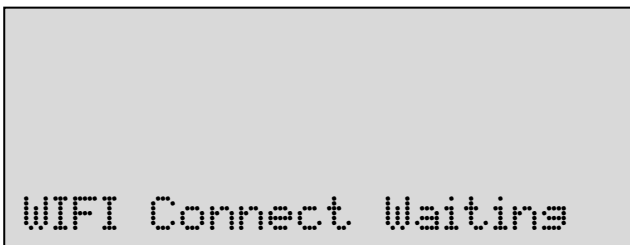
Clear symbol- clears the entire password.



Exit symbol- Will exit current screen without saving.



The arrow keys will appear to go to the next display screen or previous display screen.



Step 5: Once you have entered your password cursor to the 'save' key and press ENTER. It will show 'WIFI Connect Waiting'. It may take up to 30 seconds for the system to connect. Once connected it will display 'Connected to Network' and 'IP Address' (*see below*)

```
Connected to Network
Test1234
IP Address:
123.45.6.789
```

Step 6: Once the system is connected you should see your network under 'Connected to Network'.

WIFI Config Mode

```
WIFI Confis ? On Off
```

Step 1: Turn on wifi config

To turn the wifi config 'on', you will need to access the configuration menu. Use the up, down arrows on the navigation panel to find 'configuration menu.' Select by pressing ENTER. When you reach the screen below select 'On' by using the left, right arrows to move the cursor, then press ENTER.

```
WIFI Connect Waiting
```

Once you have selected WIFI Config On, you will see the message below on the status screen.

Step 2: Connect to NexPump Network (You can use any device with wireless connectivity.)

Go under your device wifi settings. You will see a network displaying "NexPump", connect to it.

Note: With Apple products make sure Auto-Join and Auto-Login is turned off, otherwise it may take a minute or longer for the webpage to display.

Step 3: Connect through a Browser

Open your browser (ex: Google chrome, Safari.) Enter 'npsetup.com' in the address bar. A username and password dialog should pop up. The default username and password is below:

Username: NPAdmin (username is case sensitive)

Password: User Serial Number (include letters/case sensitive)



Step 4: Find your Network

Once you enter the correct Username/Password you should be on the 'WIFI CONNECT' screen'. Clicking the 'Scan for Wireless Networks' will list the networks in range. You can click one on the list or click 'Other Network', to enter one not listed. Once you enter the password for your wireless network select 'OK'.

```
Connected to Network
Test1234
IP Address:
123.45.6.789
```

Step 5: Verify Network Connection

Once you have entered your password and selected 'OK' the NexPump should display 'Connected to Network' and 'IP Address' (*Note: this may take a few seconds*). If 'wifi connect waiting' screen is still showing after 30 seconds repeat this process again as you may have incorrectly entered some information (*Note: password is case sensitive*).

WPS Config Mode

```
WPS Config ? On Off
```

Step 1: Turn 'WPS Config' On, you will need to access the configuration menu. Use the up, down arrows on the navigation panel to find 'configuration menu.' Select by pressing ENTER. When you reach the screen to the right select 'On' by using the left, right arrows to move the cursor, then press ENTER.

```
WPS Waiting
```

Step 2: Once the WPS Config is ON you will see the following on the second line of the LCD Screen:

Step 3: Once the NexPump is in the WPS Waiting Mode, press the WPS Button on your wireless router. If you are unfamiliar with the WPS Mode of your wireless router, please refer to the routers user manual for more information.

```
WPS In-Progress
```

Step 4: Once the WPS on your wireless router is initiated, you should see the following on the LCD screen. Once the LCD switches to WPS In-Progress, it should take a few minutes to make the connection to your router (*Note: If WPS In-Progress changes back to WPS Waiting, press WPS button on your router again after it stops flashing*).

```
Connected to Network
Test1234
IP Address:
123.45.6.789
```

Step 5: When the NexPump is connected to your router you will see the 'Connected to Network' screen to the right. Verify it is your network.

Wireless Setup is complete.

Network Remote Access Setup

Port Forwarding must be enabled on your router. See your routers user's manual on how to setup port forwarding.

NexPump Internet Screens

Status Page

Bright Green – System OK
Dark Green – Setting is Off
Red – Alert Condition or Red Flag that Setting is On
Amber – Amber Flag that Setting is On
Purple – Manual Mode is On
Blue – Pump Activated or In Backup Mode
Cyan – In Primary Mode

Command Page

Run Commands, Set Configuration Parameters or Turn Functions On/Off from this screen.

IP Configuration Page

This screen can be used to manually configure IP Information when DHCP disabled HTTP Port and Web Password can also be changed here.

WIFI Configuration Page (Wireless Version)

Once your wireless is configured, you can see your configuration or make changes from this screen.

Email Configuration Page

The Email screen is used to configure where and how Status Emails are sent. An Email_To, Email_Host, Email_User and Email_Password are required.

(Note: The Email settings are not dependent for the Notification System. The Notification System relies ONLY on an Internet Connection. These settings are ONLY for the Status Emails.)

Enter EMail_To with a valid Email Address.

Enter EMail_Host with a valid domain name or valid IP Address of the Email Host server

If your account requires a login and password then enter those in the E-Mail User and Password fields.

The Email Port can be set to 25,587.

TLS is supported. (Use Port 587 for TLS)

Recurring time can be set to 0 – 28. This represents a multiple of the 12 Hour Self-Tests. 0 will disable Status Email. A setting of 1 will send Status Emails every 12 Hours, 2 every 24 hours, etc.

Time Configuration Screen

Set Time Configuration to the format you prefer and the Time Zone you are in.

NOTIFICATION STATUS

Clear Notification Module Alerts:

To clear any Notification Alert, use Clear Alarm menu item.

(Note: In order to prevent repetitive notifications. Once an alert is cleared, the system unit will set a counter to approximately two hours before new notifications will be sent.)

Testing

Notification modules are tested on 12 hour self-tests or manual tests. Exceptions: Notification is active.

Alerts

The NexPump system monitors 38 critical points on the unit. In the case of an alert the system will alarm followed by a notification if you have that option.

Normal Alerts

Pump Activation

AC Power Loss

Notifications: After approximately thirty minutes

Note: Pump Activation lets you know there may be an issue with your main pump. If you find you have a problem with your main pump you can switch the NexPump mode to 'Primary' until the main pump problem is corrected.

Critical Alerts

All other alerts

After approximately five minutes, except a High Water Alert, which is approximately one minute.

Ai Notification System

Initial Registration

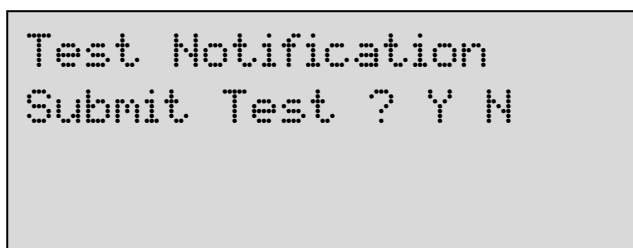
You must register your NexPump before notification use. Visit the NexPump's website at 'www.nexpump.com' and click '**Register My NexPump**'. Fill in the initial form using your complete serial number (format 'NPBxxxxxxx') and PIN number. On the following form, fill in all required information along with the phone numbers and email addresses you want the Ai notification system to use to contact you in event of any alerts. Once you have registered successfully you will receive an E-Mail confirming your setting.

Changing Your Setting

Visit the website at 'www.nexpump.com' and click '**Customer Login**'. Once logged in, you can change your information and update. You can also change your login password if you want. Once you updated your changes, you will receive an email confirming the changes.

Notification Detail

When the NexPump detects an alert the built-in alarm will start beeping. After approximately thirty minutes for normal alerts, five minutes for critical alerts and one minute for high water alerts. If the alert is cleared or silenced (activation or AC power loss) before the notification process timeout has expired the notification will NOT take place. This is because the NexPump assumes someone knows about the alert since the alarm was cleared.



Notification Testing

If you have a NexPump with an internet module you can run a Function 'T' (manual test) and at the end of the test you will be able to schedule a notification test.

Notification Process

Person answers the call

1. States alert(s), pressing one skips the message
2. Press one to acknowledge or zero to repeat.
3. Call ends
4. Up to four E-Mails sent with alerts and stats
5. Up to four E-Mails sent with confirmation status

Answering machine or voice mail answers the call

1. States alert(s).
2. Call ends
3. Up to four E-Mails sent with alerts and stats
4. Up to four E-Mails sent with confirmation status

Important information during an event

During an event we have found that many owners will continuously clear the alert conditions and receive redundant notification calls. Please review the information below.

1. Once an alert is cleared, the NexPump sets a counter so repetitive notifications will not occur.
2. *Electric Failure, Pump Activation (Backup Mode)*
 - To prevent notification from reoccurring, you can **Silence the Alarm, DO NOT CLEAR ALARM**. If only the pump activation alarm is occurring, you can switch to the Primary mode for the duration of the event or if your main electric pump has failed.
3. *High Water Alert*
 - **High Water Alerts should NOT be cleared, however the NexPump should be allowed to operate under this condition until the pump(s) are no longer operating 100% of the time. The alarm at this point should be cleared. If you decided to 'Disable the Alarm' you should monitor the situation.**
4. *Suspected Clog Alert with high rate of incoming water*
 - When the incoming water rate is extremely high, the NexPump may warn of a Suspected Clog Error. This is indicated with Pump identifiers 'X' or 'x' and happens in normal operation. **Do not clear this alarm, however monitor the situation.** Once the water rate slows down the condition should automatically clear.

Appendix

UPS Information

A UPS is a device to supply AC Power during a power outage. You will need this if you want to be alerted on Power Outages with any NexPump Internet Module. A 250w UPS should be capable of powering an internet router for about 3-4 hours. Using a larger wattage UPS will increase the time. You need at least have 45 minutes for power outage alert.

Notification Disclaimer

Nexpump, Inc. reserves the right to temporarily disable notification from units which are considered in abuse of the notification system. This will include excessive repetitive notifications for the same alert issue without a corrective action taken.

Open Source Licenses

NOTICE for ARMmbed TLS

URL: <https://github.com/ARMmbed/mbedtls>

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

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