NAVAC

Empowering you to work smarter

NSTL

Smart Digital Temperature Clamp

User Manual

⚠️

Failure to follow warnings could
result in death or serious injury.
**SAVE THIS MANUAL
FOR FUTURE REFERENCE**

CONTENTS

I. Safety Information

Please read this manual carefully before operating, overhauling, or maintaining the product. This will help ensure long-term stable operation and provide a comprehensive understanding of the safety considerations and operational precautions.

Please check carefully whether the product you received matches the one you ordered, whether the accessories and instruction manual are complete, and whether there is any damage during transportation. If any issues are found, please promptly contact our Tech Support or local distributor.

Reading the manual thoroughly and following the correct operating procedures will help ensure safe use and extend the equipment's lifespan.

⚠️ **Warning**

1. Please do not clamp this product onto fragile, breakable or scratchable objects as it has a high clamping force.
2. Be cautious of injuries caused by clamping;
3. This product has an IP54 waterproof rating; however, please avoid using it in underwater environments to prevent potential damage.

⚠️ **Caution**

1. The power supply used must match the power supply specified on the product.
2. This product is capable of measuring pipe diameters between Ø 0.75in and Ø 4.1in.

This product is designed for HVAC system maintenance and repair and is intended for use by trained technicians.
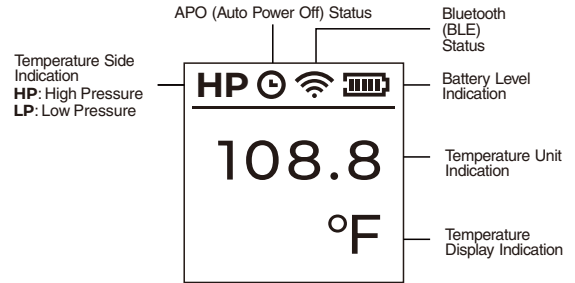
II. Product Overview

Temperature Sensor (Lower)
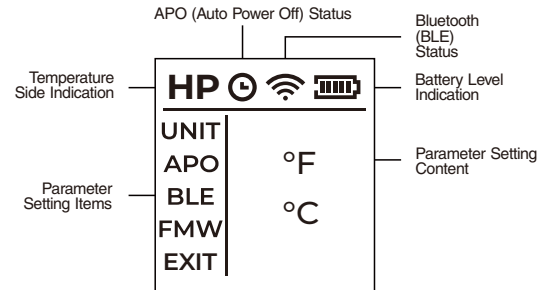Display
Power Button
Temperature Sensor (Upper)
Battery Cover
High & Low Temperature Switching Knob

III. Technical Specification

Model No.	NSTL
Measuring Range	-40~257°F
Measuring Accuracy	±2.7°F
Resolution	0.1°F
Working Environment	-4~58°F, 10~75%RH
Battery	2 x AAA batteries
Bluetooth Range	164 ft (50m) line of sight

IV. Screen Display

Main interface:

APO (Auto Power Off) Status
Bluetooth (BLE) Status
Temperature Side Indication
HP: High Pressure
LP: Low Pressure
Battery Level Indication
Temperature Unit Indication
Temperature Display Indication

HP 108.8 °F

Parameter setting interface:

APO (Auto Power Off) Status
Bluetooth (BLE) Status
Temperature Side Indication
Parameter Setting Items
Battery Level Indication
Parameter Setting Content

HP
UNIT
APO
BLE
FMW
EXIT
°F
°C

Parameter Setting Items	Parameter Setting Content
UNIT (Pressure Unit)	°F, °C
APO (Automatic Power Off)	ON, OFF
BLE (Bluetooth Switch)	ON, OFF
FMW (Hardware Information)	VER: Hardware version; MAC: Bluetooth address
EXIT (Exit Project)	Return to home screen

V. Indicator Light

When the device is in the on-screen state: green light indicates when the button is pressed.
When the device is in the off-screen state:
1. When the Bluetooth is not connected, the indicator light flashes slowly; when the Bluetooth is connected, the indicator light flashes quickly.
2. The green light indicates when the collet is closed or during measurement; the yellow light indicates when the collet is open or disconnected.
3. When the device power is low, the red light flashes slowly.
4. When there is a hardware malfunction, the red light flashes quickly.

VI. Alarms

Over range:
1. When the temperature is between 257~302°F, the buzzer will alarm at 0.5S frequency and the value will flash.
2. When the temperature is below -40°F or above 302°F, the buzzer will alarm for a long time and display "OL".

Hardware failure: when the device's Bluetooth fails, the buzzer will alarm at 1S frequency and display "ERR.-".
Device chuck separation/sensor failure: The buzzer will alarm once and display "OPEN".

VII. Bluetooth Connection

Bluetooth Disconnected or Broadcasting: The 📶 Bluetooth icon blinks on the display.
Bluetooth Connected: The 📶 Bluetooth icon remains steady.
Bluetooth Off: The 📶 Bluetooth icon is not displayed.

VIII. Device Standby/Off

If the device is idle for 1 minute, it enters standby mode and turns off the screen.
If the device is idle for 2 hours, it powers off automatically.

IX. Temperature End Indication

Flip the side wheel forward, and the device display will be on the LP side.
Place the side scroll wheel horizontally and the device display will be on the HP side.

X. Button Function

Power on/off: Press and hold the button for at least 2 seconds to turn the power on.
To turn it off, press and hold the button for at least 2 seconds after the device has been powered on.
Function operation:
1. Double-click the button on the main interface to navigate through parameter settings and to confirm selections.
2. In the parameter setting interface, the items on the left can be toggled. The sequence of these settings includes temperature unit, automatic shutdown time, Bluetooth switch, hardware information and exit project.
3. Single-click to select parameter settings, then double-click to confirm and return to the left interface double-click the exit key to return to the main interface.

XI. Exploded View
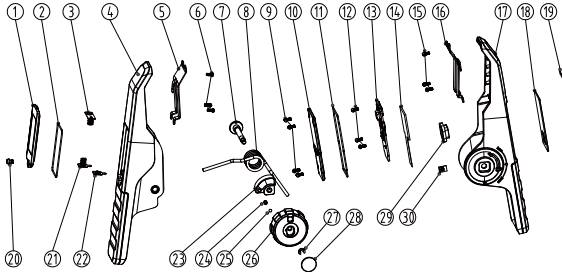
Spare Parts List

No.	Item	No.	Item
1	Battery Cover Assembly	16	Upper Clip Body Thermal Conductors
2	Battery Cover Waterproof Ring	17	Upper Clamp
3	Positive and Negative Battery Shrapnel	18	Lens
4	Upper Clip	19	Decorative Strip
5	Lower Clip Body	20	M3 Pan Head Light Bar Screws
6	Phillips Pan Head Tapping Screws	21	Negative Battery Shrapnel
7	Swivel	22	Positive Battery Shrapnel
8	Torsion Spring	23	Pivot Nut Assembly
9	Cross Recessed Pan Head Tapping Screws	24	Spring
10	PCB Compartment Cover	25	Steel Ball
11	PCB Compartment Waterproof Ring	26	Knob Assembly
12	Cross Recessed Pan Head Tapping Screws	27	Open Retainer
13	PCBA Motherboard	28	Decorative Cover Plate
14	1.3-Inch Display	29	Switch Key
15	Phillips Pan Head Tapping Screws	30	Hall Switch Small Plate

XII. Download Methods

For Apple:
Search for "myNAVAC" in the App Store, then download and install the app.

iOS Download
(iOS 12.0 or above)

For Android:
Search for "myNAVAC" in the Google Play Store, then download and install the app.

Android Download
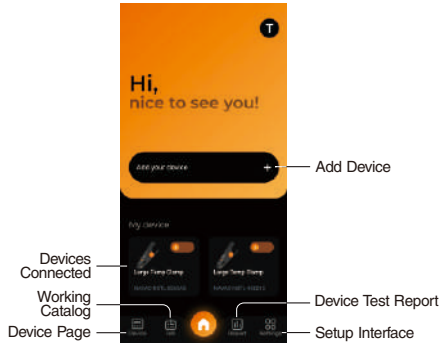(Android 7.0 or above)

XIII. Login Methods

Account login:
A network connection is required. All data records are stored on the cloud server server.

Visitor mode:
No network connection is required. All data records are stored locally on the cell phone.
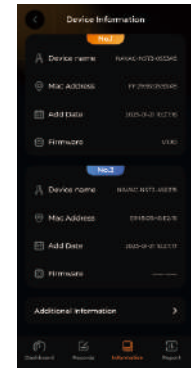
XIV. Page Introduction

Main Interface:

Add Device

Devices Connected

Working Catalog

Device Page

Device Test Report

Setup Interface

Device Page:

Settings

Device Disconnect

Dashboard

Chart Records

Equipment Reports

Device Information

Chart Record:

Device Information:

Setup Interface:

Temperature Unit Selection

Firmware Version Update