

7 - KEYPAD OVERVIEW

Left Display: Home at beginning displays process value (PV). Entering into menus displays the value or setting of parameter

Output Activity: Indicate activity of outputs 1 & 2, dio 5 & 6

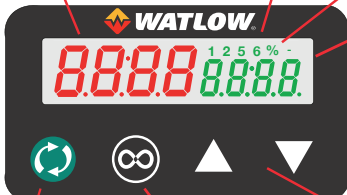
Manual Power: Indicates the set point is in % manual mode

Right Display: Home at beginning displays set point (SP). Displays page name when entering pages. Entering into menus displays the parameter name

Up and Down Keys: At Home adjust the set point in right display. Changes menu inside pages. Inside menus, changes the selected setting in left display

Advance Key: Advances through menu prompts.

Infinity Key: Clears or silence alarm when active else return home



The diagram shows a black rectangular keypad with a digital display at the top. The display is split into two sections: the left section shows '8888' in red, and the right section shows '88.88' in green. Above the right section of the display are small indicators for '1 2 5 6 %'. Below the display are four buttons: a green circular button with a white circular arrow (Advance Key), a white circular button with a black infinity symbol (Infinity Key), a white upward-pointing triangle (Up Key), and a white downward-pointing triangle (Down Key). The Watlow logo is at the top left of the keypad. Red lines connect text boxes to each of these elements.

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<http://www.watlow.com/resources-and-support/Technical-Library>



Scan for full manual.

8 - INTRODUCTION TO KEYPAD AND MENU BASICS

Pages, Menus and Keypad Basics

See Panel 7 - Keyboard Overview

These instructions are not inclusive. This Quick Start Guide (QSG) is meant to be a quick reference to show you how to navigate to frequently used areas of the controller. As an example; setting process outputs are not documented in this QSG. Refer to the User's Guide for more detailed instructions.

Note: Diagrams might vary depending on programming the controller.

Introduction to the Operations & Setup Pages

Upon power up, the display will default to home. The left red displays process (PV). The right green displays set point (SP). Setup page is a collection of menus having parameters changed typically one time when controller is first installed or each time hardware changes occur. Operations page is a collection of menus having parameters changed more frequently.

Menus in each page contain common parameters that affect a particular function of the controller. Ex. Analog Input, Control Loop, Outputs and Alarms are commonly used functions. Parameters are grouped for each function. The Global function is where to set the display units between °F and °C. The Global function is where to set the display units between °F and °C. Set units first if using °C as default is °F.

Setup Page

menu

page

A, Analog Input
Lnr, Linearization
Pv, Process Value
d io, Digital I/O
LooP, Control Loop
o t P t, Output
AL P t, Alarm
t P t r, Timer
g l b l, Global
C o m, Communications

Operations Page

menu

page

A, Analog Input
Lnr, Linearization
Pv, Process Value
d io, Digital I/O
P t o n, Monitor
LooP, Control Loop
AL P t, Alarm
t P t r, Timer

Setup Page

To enter the Setup Page, press both arrow key + for 6 seconds.

Use arrow keys to select menu.

Press advance key to enter selected Menu.

Press the Infinity key for 2 secs. at any point within the menu to return home.

Operations Page

To enter the Operations Page, press both arrow key + for 3 seconds.

Use arrow keys to select menu.

Press advance key to enter selected Menu.

Press the Infinity key for 2 secs. at any point within the menu to return home.

9 - SET INPUTS

start from home

▲ + ▼

6 sec to enter setup page

▶ to

tc 5En

▶ if thermocouple select tc

▶ select thermocouple type (J, K is letter H, T is letter t)

▶

H L in

▶

rtd 5En

▶ if rtd 100 ohm select rtd

▶

3 rtd

▶ if 3 leaded rtd select 3

return home

The diagram illustrates the 10-SET CONTROL LOOP navigation sequence. It begins with a 'start from home' button (a circle with a right arrow). Pressing this button leads to a screen displaying 'R.1' in red and 'SET' in green. From here, pressing the right arrow (represented by a square with a right arrow) leads to a screen with 'LOOP' in red and 'SET' in green. Pressing the down arrow (a circle with a down arrow) leads to a screen with 'P.1d' in red and 'h.9g' in green. Pressing the down arrow again leads to a screen with 'oFF' in red and 'F.R.L' in green. Pressing the down arrow leads to a screen with '50' in red and 'LSP' in green. Pressing the down arrow leads to a screen with '1250' in red and 'h.5P' in green. Finally, pressing the right arrow (a circle with a right arrow) leads to a 'return home' button (a circle with a right arrow).

start from home

R.1 SET

6 sec to enter setup page

LOOP SET

select control loop menu

P.1d h.9g

off, PID, on/off
user select heat and cool algorithms

oFF F.R.L

off, bumpless, manual,
user select control loop action on sensor failure

50 LSP

enter degrees
select minimum set point

1250 h.5P

enter degrees
select maximum set point

return home

11- SET OUTPUTS

 *start from home*

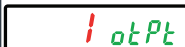
  + 

6 sec to enter setup page

 *to*

 *select output menu*

 *to*

  **1 or 2**
select output number

 *to*

  **heat, cool, alarm**
select function of output

 *to*

  **if alarm**
select which alarm (1 to 4)

 *to*

  **if heat or cool**
>=20 if mechanical
relay *select time base*

 *return home*

12 - SET ALARM

 *start from home*

  + 

6 sec to enter setup page

 *to*

 select alarm menu

 *to*

  **1 to 4**
select which alarm

 *to*

  **off, deviation,
process select**
alarm type

 *to*

  **enter degrees
select minimum**
set point

 *to*

  **both, high, low**
select alarm sides

13 - SET ALARM SET POINTS

 *start from home*

  + 

3 sec to enter operations page

 *to*

 *select alarm menu*

 *to*

  *1 to 4*
select which alarm

 *to*

  *enter degrees*
select low set point (- for dev alarm type)

 *to*

  *enter degrees*
select high set point

 *return home*

alarm active

alternates  *ack alarm*

14 - LOOP CONTROL MODE/ LOOP SETPOINT

Set Loop Control Mode

 start from home

 to

 auto, manual, off
select control mode

 return home

Adjust Loop Set Point

 enter degrees
 select set point

auto entry after 3 sec.

The diagram illustrates the 'AUTOTUNE THE CONTROL LOOP' process. It begins with a 'start from home' step, represented by a home icon. This leads to a 'to' step, indicated by a green arrow. The main process is shown in a large box divided into two sections. The left section displays 'YES' in red and 'Aut' in green. The right section contains a triangle icon followed by the text 'no, yes select auto tune (returns to no when complete)'. Below this box is a 'return home' step, represented by a home icon. The process then enters a 'tuning in progress' phase, shown as a box divided into two parts: '75' in red and '300' in green on the left, and 'tUn 1Attn' in red and green on the right. A bracket below this box indicates that the values 'alternates'.