PST1200 User Manual

21 December 2016

PST1200 Battery Part Number: 10514

PST1200 Hardwired Part Number: 10515

PST1200 User Manual Part Number: 857302

LED Status Indicators

The PST transducer has two LEDs it uses to provide status information, a Tightening Status and an RX/TX Status, both of which are bicolor red/green LEDs. These LEDs have two sets of meanings depending on if the unit is starting up or in normal operation.

Startup Mode

In Startup Mode, the LEDs are used together to indicate progress and status of the startup procedure.

First, the tool type will be shown with a number of red blinks on the RX/TX Status LED.

Next, the major and minor firmware version numbers will be shown as green blinks followed by red blinks respectively on the Tightening Status LED.

After the version number is shown, the LEDs will show the following:

RX/TX	Tightening	Meaning
Red flashing	Red flashing	EEPROM read failed
Red flashing	Red flashing	Could not configure the radio[1]
Green on	Off	Successfully configured radio
Green flashing	Green flashing	Successfully reconnected with the previously learned receiver[2]
Green flashing	Green on	Successfully learned to a new receiver[2]
Red flashing	Red flashing opposite	Could not find a receiver[1,3]

[1] If this state occurs, the unit will continue to flash these LEDs until power is cycled and will not enter Normal Operation Mode.

[2] Once the LEDs clear after these flashes, the unit will go to Normal Operation Mode.

[3] Unlike other dual flashes, this mode will have one LED on while the other is off, instead of both on at the same time.

Normal Operation Mode

In Normal Operation Mode, the LEDs are used separately to indicate tightening or communication status.

| Tightening	Meaning
Off	No pressure is detected above the monitoring threshold
Green flashing	Rundown has begun
Red flashing	Monitoring pressure for a rundown has begun, but the transducer is not configured
Green on	A rundown has completed and yielded a successful result
Red on	A rundown has completed and yielded a rejected result
Toggle	The result buffer has overflowed

RX/TX	Meaning
Off	No transmission status
Green on	A packet was transmitted successfully
Red on	A packet transmission timed out
Toggle	The radio channel is being changed

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Tool Types

The PST1200 is designed to work with a wide variety of pneumatic tools. Most tools will work with the default tool type (Pulse/Direct). However, some tools will perform in different ways, and you will need to select the correct tool type to ensure proper behavior. When needed, tool type selection is done using the Global 400.
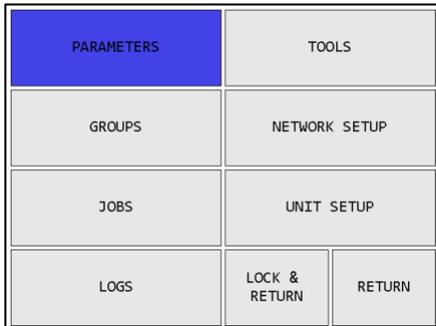
Configuring the Tool Type

This section will walk you through the steps to set the tool type.
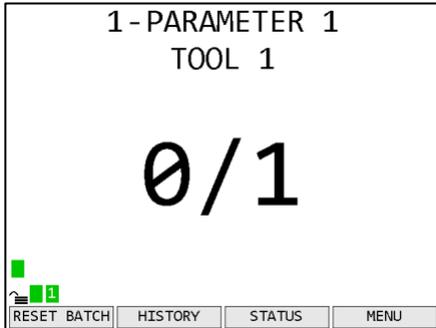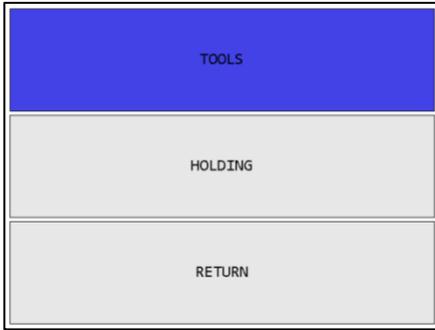

From the main screen, go to the menu by pressing **MENU** or the ENT key.

Enter the password using the numeric keypad and pressing ENT when completed.

(If the unit is unlocked due to the key switch, this step will be skipped.)

In the menu, press the right arrow to select TOOLS and press ENT.

In the tools menu, press ENT to go to the main tools page.


Use the arrow keys to select the tool you want to configure and press **EDIT**.

Press the down arrow until the cursor is on the Air code row. Use the left and right arrow keys to choose the correct tool type and press **SAVE** to begin using the new tool type.

Tool Configuration Options

This section describes the general meaning and usage of the air specific parameter configuration options for a PST 1200 in the Global 400.
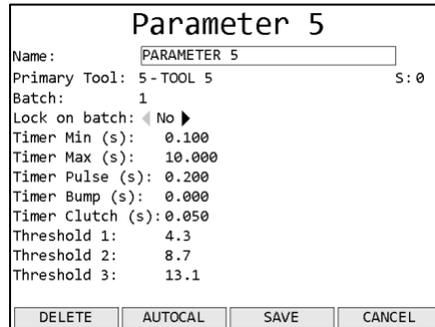
```
                        Parameter 5
Name:              PARAMETER 5
Primary Tool: 5-TOOL 5                           S:0
Batch:             1
Lock on batch: ◀ No ▶
Timer Min (s):     0.100
Timer Max (s):    10.000
Timer Pulse (s): 0.200
Timer Bump (s):  0.000
Timer Clutch (s):0.050
Threshold 1:       4.3
Threshold 2:       8.7
Threshold 3:      13.1

    DELETE    AUTOCAL    SAVE    CANCEL
```

Threshold 1

This is the threshold at which the PST starts and ends tracking a rundown. As long as the pressure is below threshold 1, the PST will consider the tool to be in the idle state. When the pressure goes above threshold 1, the PST will start tracking a rundown.

Threshold 2

This is the threshold at which the PST starts counting fastening time.

Threshold 3

This is the threshold at which the PST considers the tool to have clutched out. Crossing this threshold will also end the fastening time.

Timer Min and Timer Max

These timers are used to limit the fastening time. The fastening time for a good rundown must be between timer min and timer max.

Timer Bump

This timer is used to account for cases where the air tool trigger may be bumped when not in use. If the rundown time (that the pressure is above threshold 1) is shorter than timer bump and the tool did not clutch out, the rundown will be ignored and not reported to the Global 400.

Timer Pulse

This is the minimum time that the tool must spend in its pulse phase for a valid rundown. This setting is not used for all tool types.

Timer Clutch

This is the minimum time that the tool must spend clutching out (with the pressure above threshold 3) for a valid rundown.