

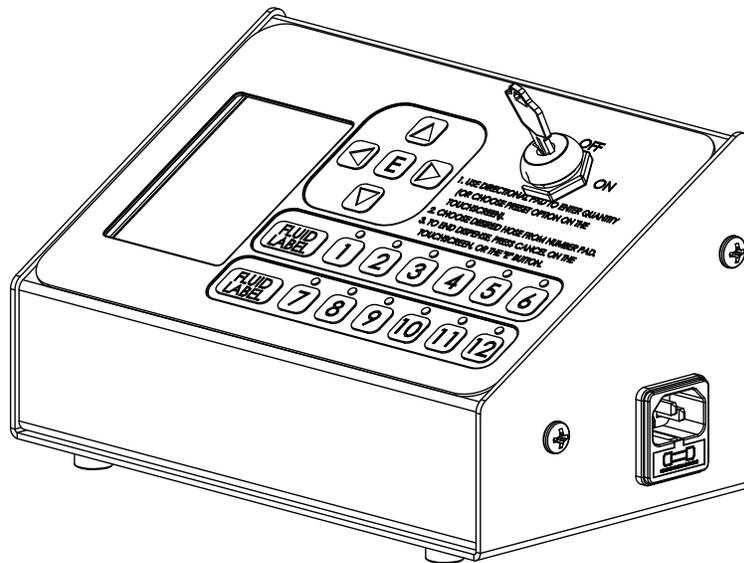


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SERVICE GUIDE

AFCS FLUID GUARD 2

Model 343596



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Safety

Read and carefully observe installation instructions before installing, operating or troubleshooting referenced equipment. Equipment must be installed, maintained and repaired exclusively by persons familiar with instructions.

- While unpacking, check unit is complete and free from damage.
- Install unit so that:
 - power supply cords/wiring are secured away from vehicle and other types of contact.
 - unit is not near or over heat.
 - unit is properly grounded.
- AFCS Fluid Guard must be equipped with plug having third (grounding) pin that only fits into grounding type outlet. This is a safety feature. Do not use without properly grounded outlet.
 - Failure to properly ground AFCS Fluid Guard may cause damage to unit or data stored.

Introduction

AFCS Fluid Guard model is designed to be incorporated into fluid dispensing system for management of oil dispense points. The system controls 2 different fluids and twelve total hoses. Using the AFCS Fluid Guard allows for the dispensing of one fluid to twelve hoses or two fluids to six hoses.

NOTE
For indoor use only, not for outdoor use.

Explanation of safety signals

⚠ DANGER
Indicates a hazardous situation that if not avoided, will result in death or serious injury.

⚠ WARNING
Indicates a hazardous situation that, if not avoided, may result in death or serious injury.

⚠ CAUTION
Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

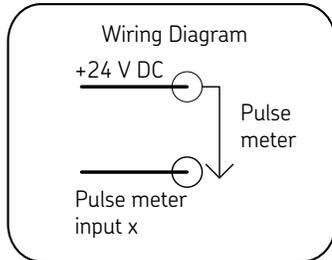
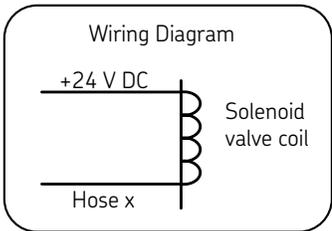
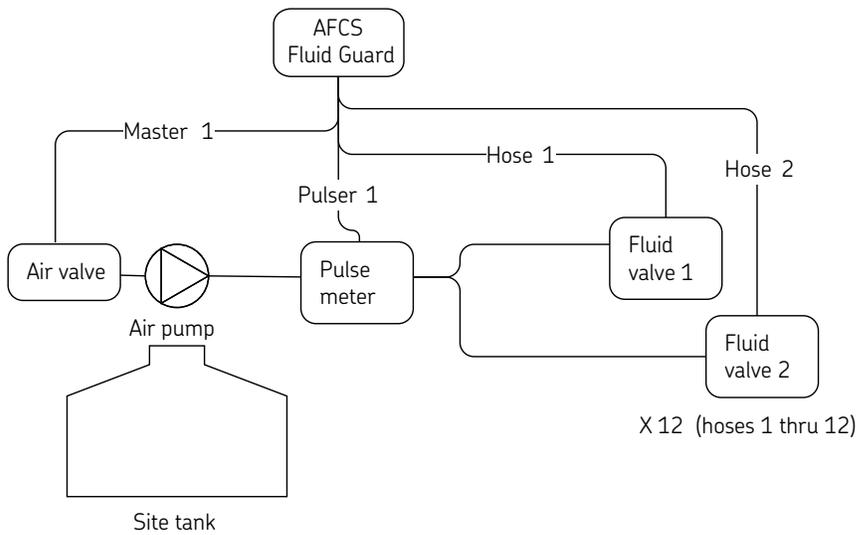
⚠ DANGER
Disconnect all power supplied to system before performing any installation or maintenance.
Failure to comply will result in death or serious injury.

Table 1	
Product specification	
Temperature range	32 to 122 °F (0 to 50 °C)
Net weight	2.5 lbs. (1,134 kg)
Input voltage	100-240 V AC, 50-60 Hz
Minimum current	0.25 A
Maximum current	2.0 A
Pulse switch voltage	24 V 
Pulse switch current	5.1 mA
Valve output voltage	24 V 
Maximum valve output current	1.85 A

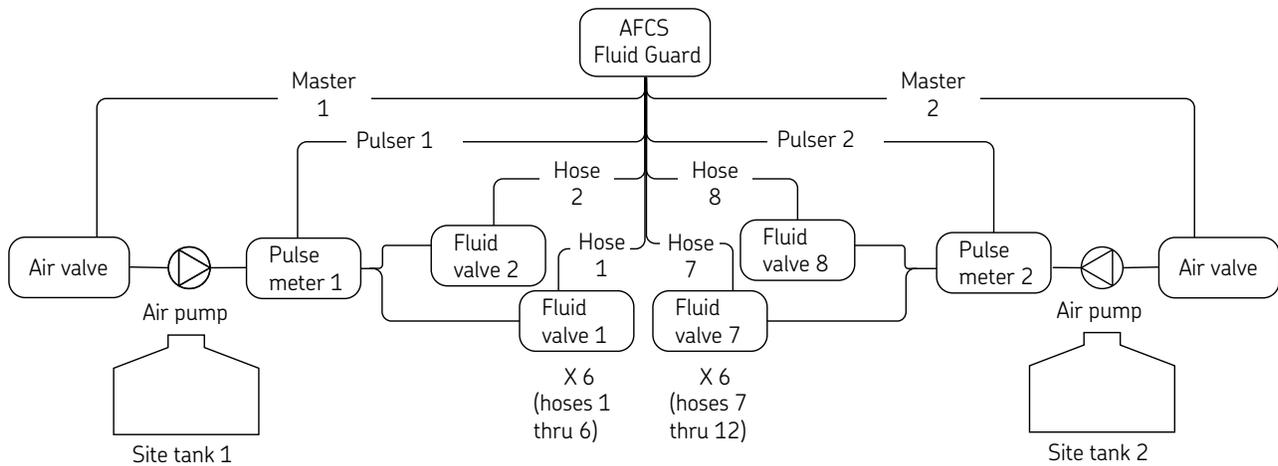
Controller overview

Fig. 1

Single fluid systems



Dual fluid systems

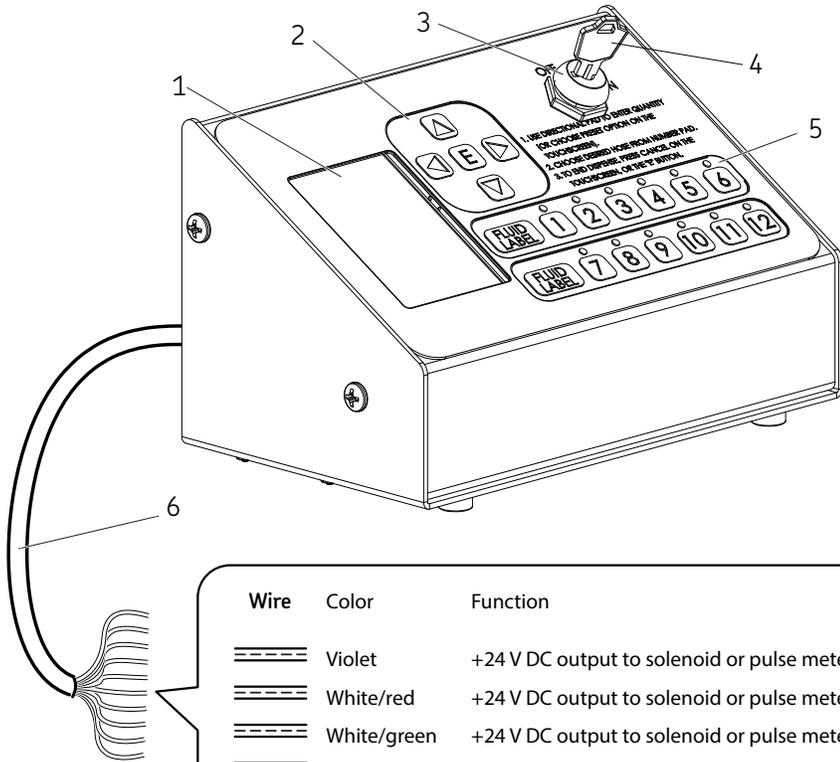


Overview

⚠ DANGER
 Disconnect all power supplied to AFCS Fluid Guard before performing installation or wiring.
 Failure to comply will result in death or serious injury.

NOTE
 Do not leave electrical wires uncovered.
 Cover wires not used with wire nut.
 Failure to comply may result in damage to equipment.

Fig. 2



Item	Description
1	Touchscreen
2	Screen keypad
3	Power switch
4	Key ¹⁾
5	Dispense presets
6	Interface cable

¹⁾ Order replacement key, part number 282501, as needed.

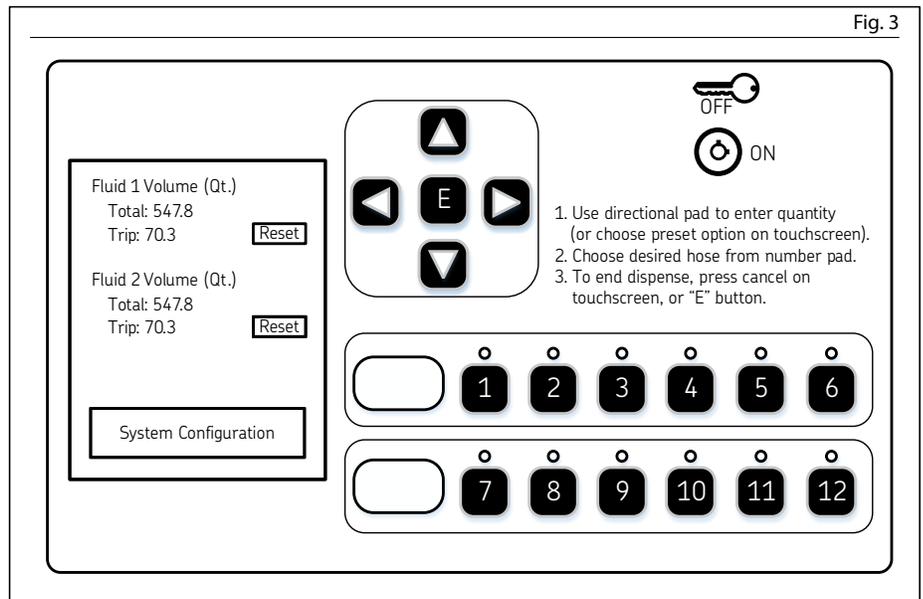
Wire	Color	Function
=====	Violet	+24 V DC output to solenoid or pulse meter
=====	White/red	+24 V DC output to solenoid or pulse meter
=====	White/green	+24 V DC output to solenoid or pulse meter
=====	White/yellow	+24 V DC output to solenoid or pulse meter
=====	Red/green	Master solenoid output 1 (hoses 1-12 for single fluid system, hoses 1-6 for dual fluid system)
=====	Red/yellow	Master solenoid output 2 (inactive for single fluid system, hoses 7-12 for dual fluid system)
=====	Red/black	Pulse switch input 1 (hoses 1-12 for single fluid system, hoses 1-6 for dual fluid system)
=====	White/black	Pulse switch input 2 (inactive for single fluid system, hoses 7-12 for dual fluid system)
=====	Yellow	Hose 1
=====	Brown	Hose 2
=====	Blue	Hose 3
=====	Orange	Hose 4
=====	Green	Hose 5
=====	White	Hose 6
=====	Red	Hose 7
=====	Black	Hose 8
=====	White/blue	Hose 9
=====	Slate	Hose 10
=====	Pink	Hose 11
=====	Tan	Hose 12

User interface

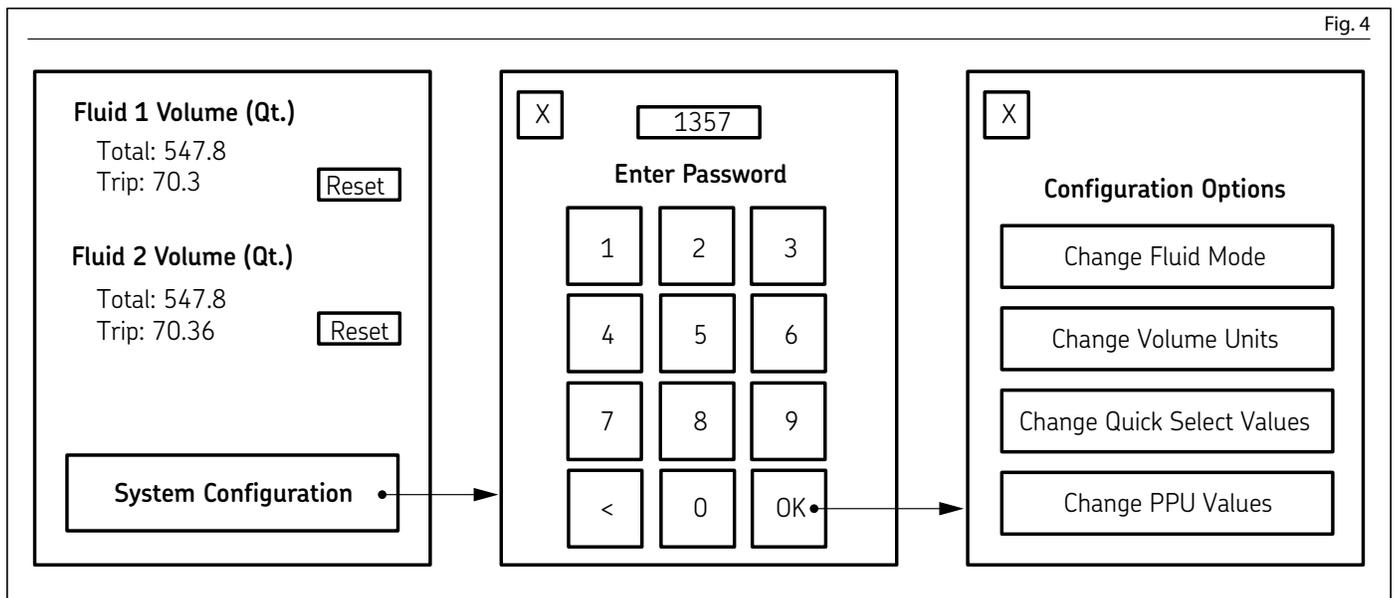
Programming interface

To get to configuration programming interface, key lock must be in OFF position. Configuration programming interface is run entirely by touch screen LCD and cannot be modified by keypad.

To enter configuration programming screen select **System Configuration**, enter passcode (1357) and press **OK**. Successfully entering passcode will bring up **Configuration Options**.



NOTE
To revert to previous screen, select X in top left corner.



Select option you wish to modify and screen will move appropriately.

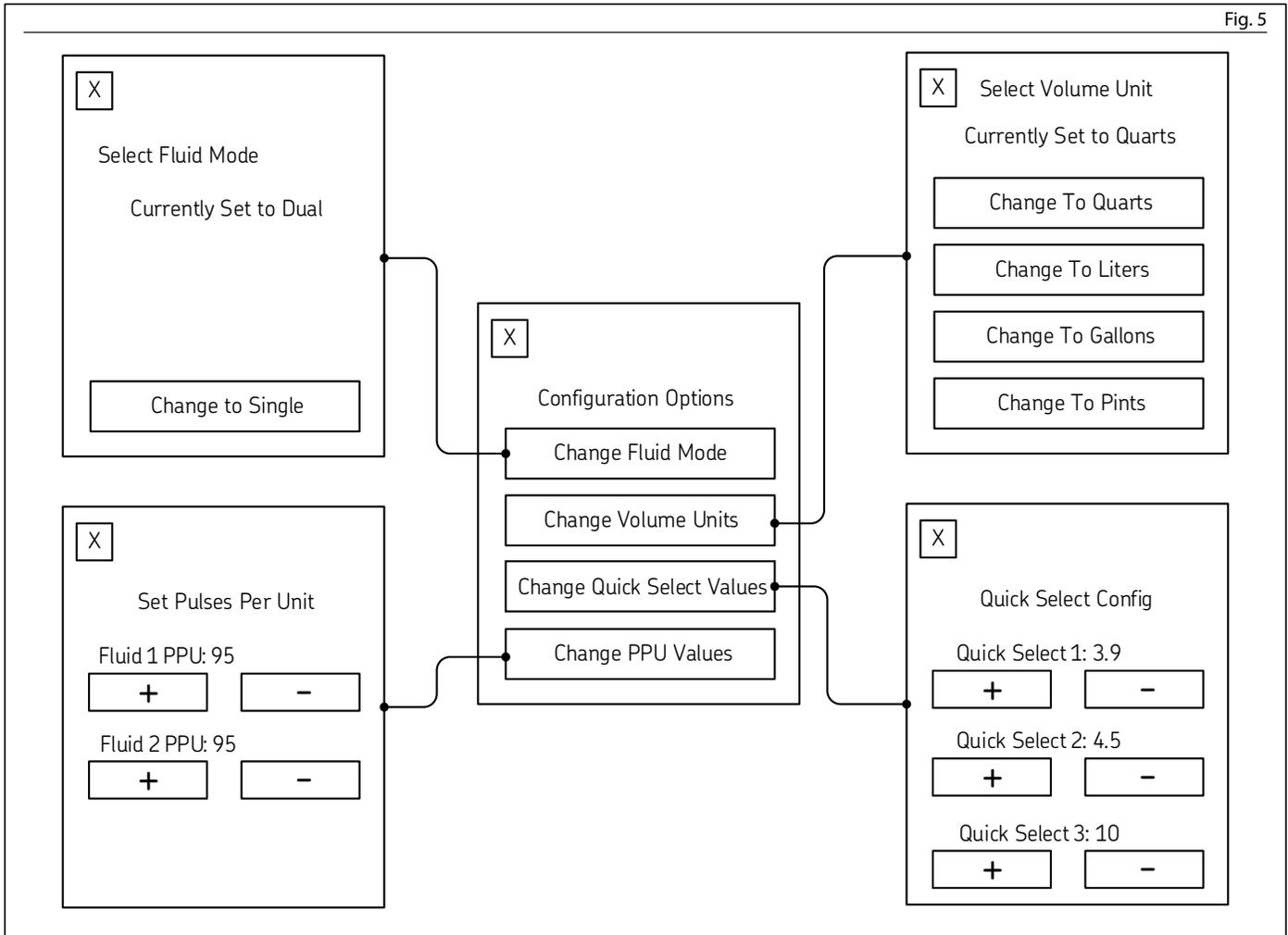


Fig. 5

Configuration changes are automatically updated on screen as they are made. When finished changing **System Configuration**, return lock key to **ON** position to save changes.

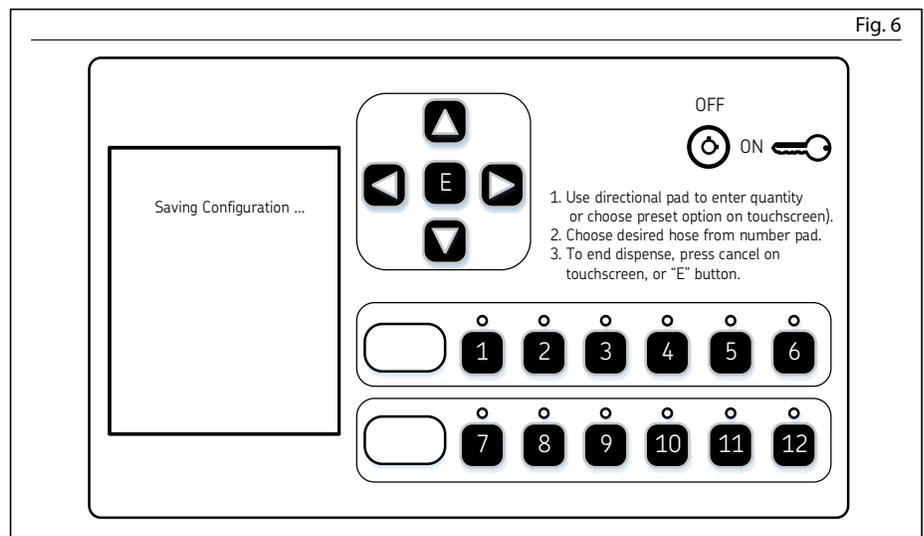
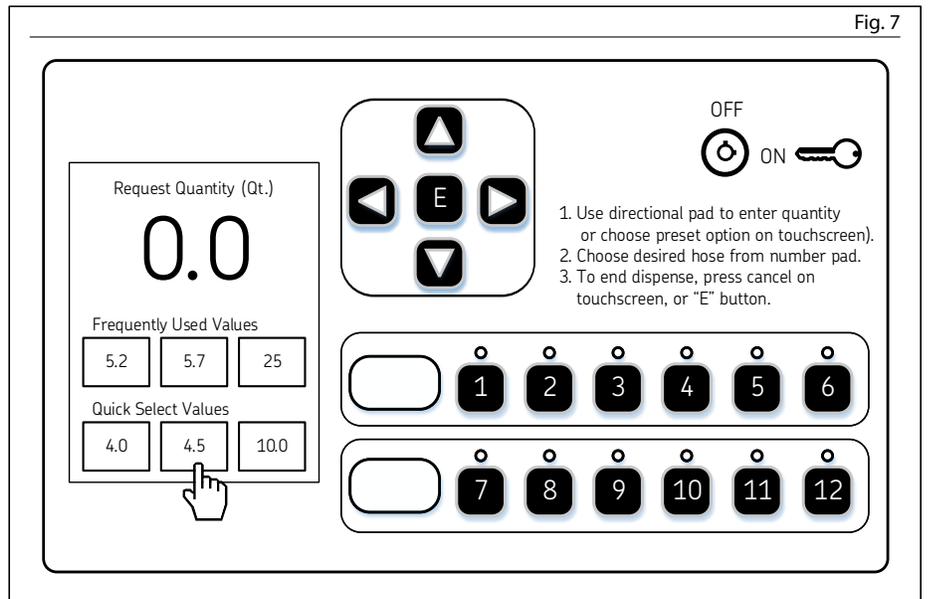


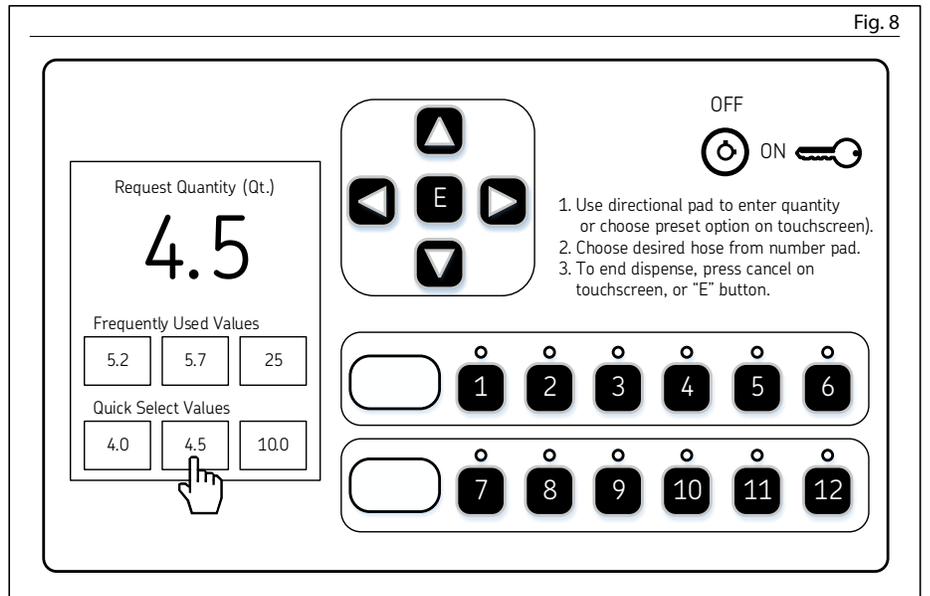
Fig. 6

Oil dispensing interface

To get to oil dispensing interface, key lock must be in ON position.

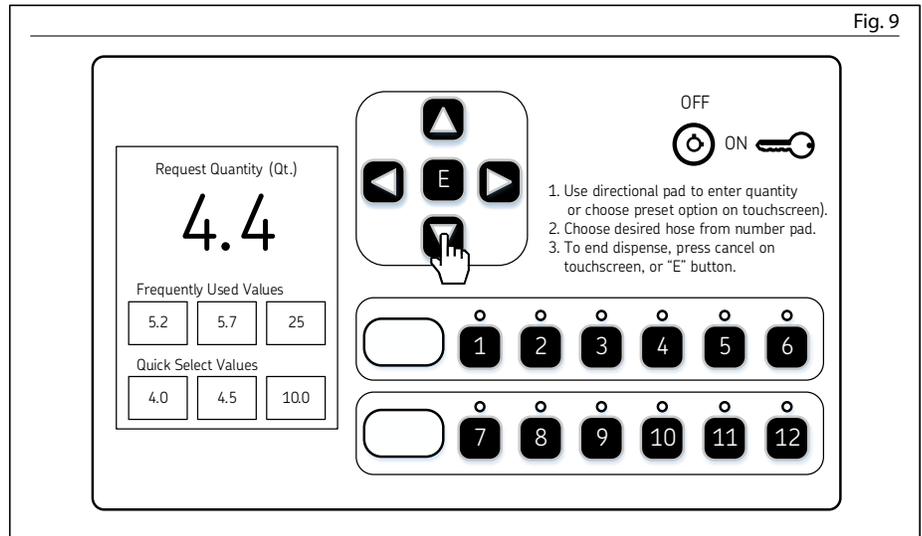


Choose option from **Request Quantity** screen to load **Quick Select** or **Frequently Used** value.



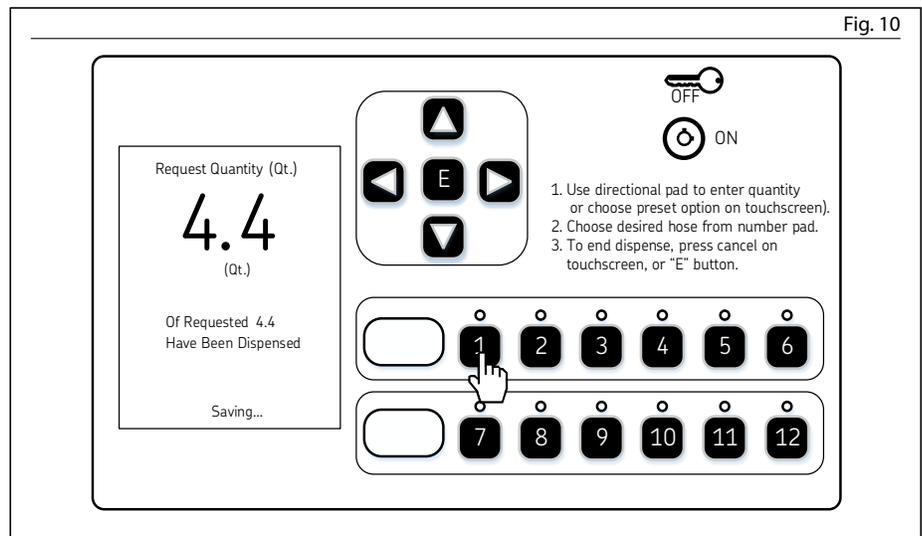
NOTE

To modify value in tenths of a unit, use up and down arrows on keypad.

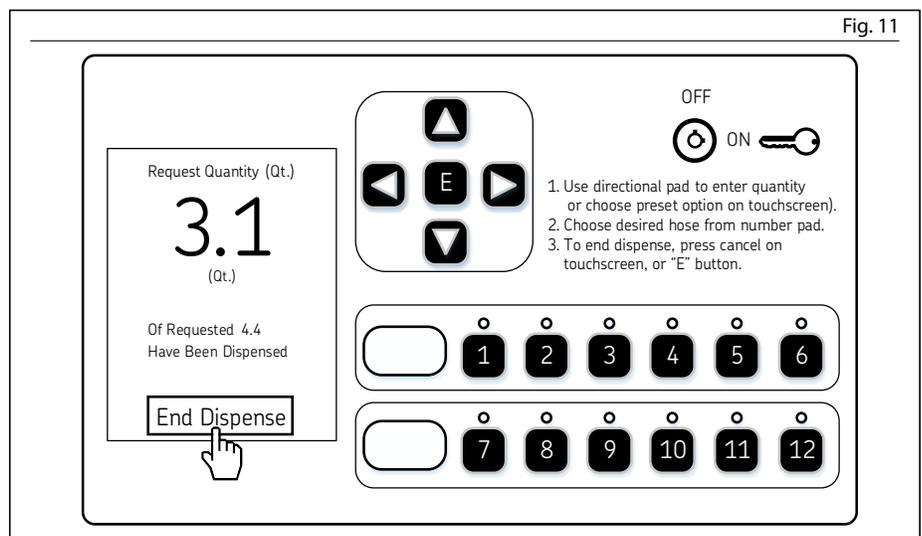


Once desired **Request Quantity** is shown, desired hose must be selected from numbered keypad to activate.

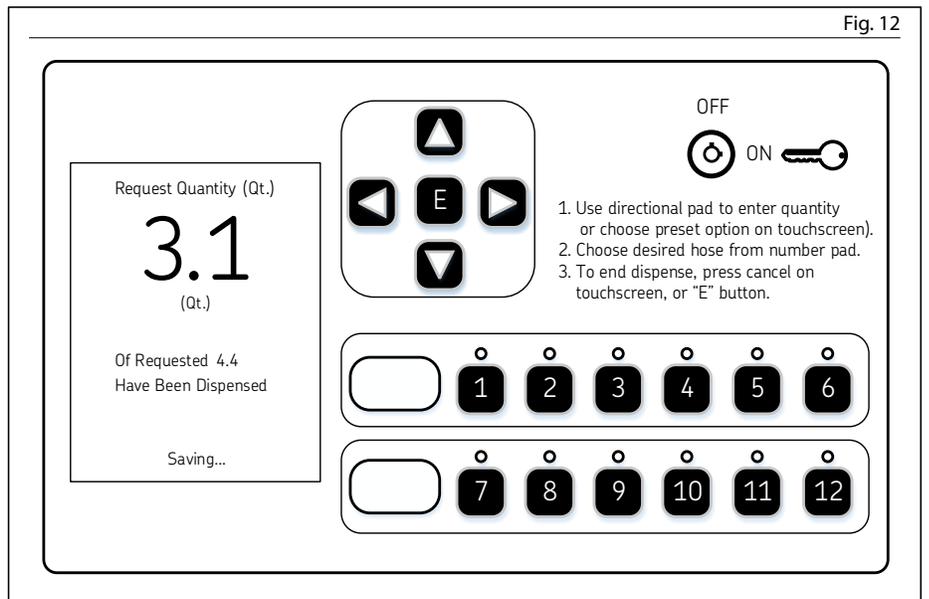
When requested volume has been dispensed, system will save new dispense data.



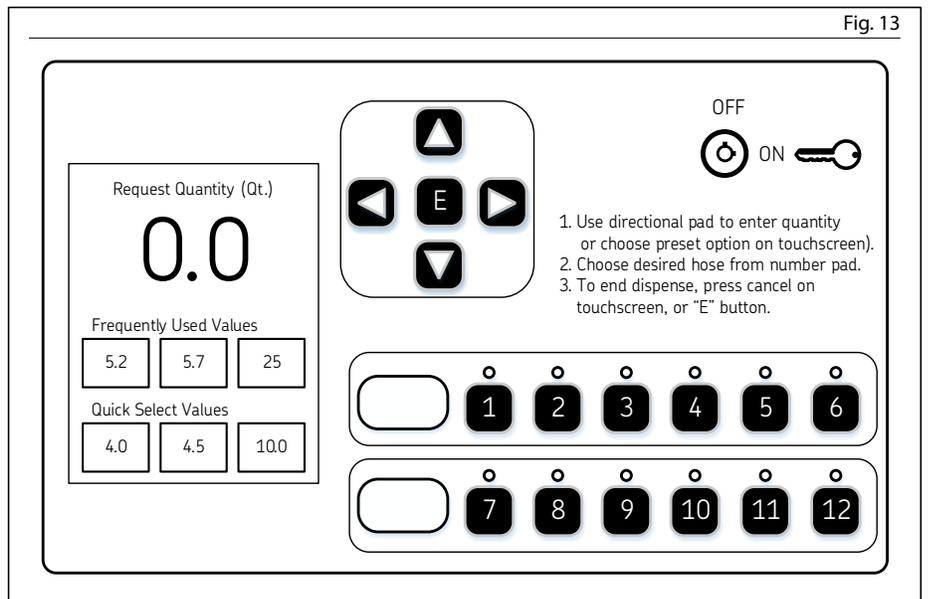
If dispense needs to be ended prior to reaching requested quantity, dispense request can be ended early by pressing **End Dispense** on touchscreen or by pressing **E** on keypad.



System will save new dispense data to memory.



After data is saved to memory, system will return to **Request Quantity** screen and new oil dispense can be requested.



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