VALLEY

ICON: Main Screen 08/07/2016 12:20 PM **MENU**

Water

Wet Timer 100.0% 0.25 Depth (in.)

Stop In Slot 0.0°

Auto Restart OFF ON

Auto Stop DISABLED Auto Reverse

AUX 1 OFF ON

STOP

RUNNING FORWARD

- No Restart
- 490 Volts
- 30 PSI (mA)
- 124.5 Wet
- No Programs
- No Errors
- 100.0%
- 24.0 Hrs/Pass
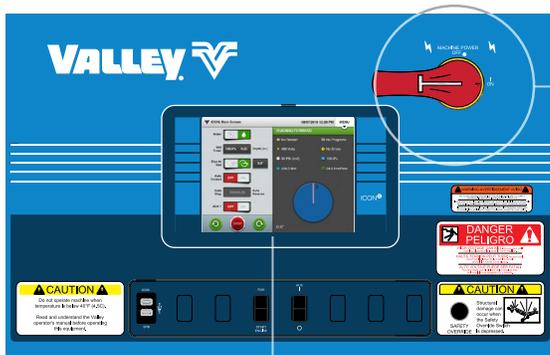
0.0°

ICON 10

QUICK REFERENCE GUIDE

SMART PANELS MADE EASY™

ICON10 QUICK REFERENCE GUIDE

NOTE: The ICON10 Main Screen is completely customizable to each user's preference. All controls can be accessed through the **CONTROLS** button in the **MENU, SYSTEM, PANEL** page.

TO RUN THE MACHINE

(Refer to the Overview and Operation sections of the Owner's Manual, and to the Advanced Features Manual.)

- ALWAYS make sure that vehicles, other equipment, livestock, and people are clear of the machine before operating.
- Turn the control panel main disconnect switch to the **ON** position. If the power is supplied by an engine driven generator, set generator to proper voltage/Hz. **DO NOT** exceed system specifications.

RUN THE MACHINE WET (WITH WATER)

1. Push the **Water** button on the Main Screen to turn the water **ON**.
2. To set the water application, select either the **Depth** field or **Wet % Timer** field.
   - In the Depth field, set the water application by inches or millimeters.

   — or —

   - In the Wet % Timer field, adjust the percent to obtain the desired water application depth.
   a. Enter either the depth or percent timer setting.
   b. Push **ENTER** to retain the value.

Do one of the following:

» Push ⟳ button to start the machine in the forward direction.

» Push ⟲ button to start the machine in the reverse direction.

» Push 🛑 to stop the machine.

RUN THE MACHINE DRY (WITHOUT WATER)

1. Push the **Water** button on the Main Screen to turn the water **OFF**.
2. To set the speed of travel, select the Dry % Timer field.
   - Enter the percent timer setting.
   - Push **ENTER** to retain the value.

Do one of the following:

» Push ⟳ button to start the machine in the forward direction.

» Push ⟲ button to start the machine in the reverse direction.

» Push 🛑 to stop the machine.

TURNING STOP-IN-SLOT ON/OFF

3. Push the **SIS** (Stop-In-Slot) button to turn **ON** or **OFF**.
   - **SIS ON** to stop at the stop-in-slot location.
   - **SIS OFF** to bypass the stop-in-slot location.
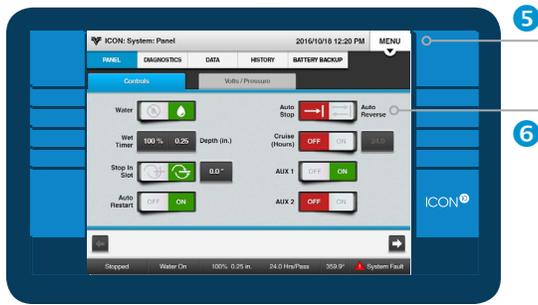
To Set the Stop-In-Slot Position:

4. Select the **SIS** (Stop-In-Slot) field.
   - Enter the desired stop-in-slot position in degrees and push **ENTER**.

⑤
⑥

SELECTING AUTO REVERSE OR AUTO STOP

5. Push **Menu, System, Panel,** and **Controls**.

6. Push the **Auto Reverse Auto Stop** button to toggle between **Auto Reverse ON** or **Auto Stop ON**.

Note: AR/AS must be Enabled. Only applicable with the drive unit mounted auto reverse hardware. Refer to "Auto Reverse Auto Stop (AR/AS)" in the Advanced Features Manual for more information.

⑤
⑦

TURNING AUTO RESTART ON

5. Push **Menu, System, Panel,** and **Controls**.

7. Push the **Auto Restart** button to turn **ON** or **OFF**.
Note: Refer to "Auto Restart Via." in the Advanced Features Manual for more information.

⑤
⑧
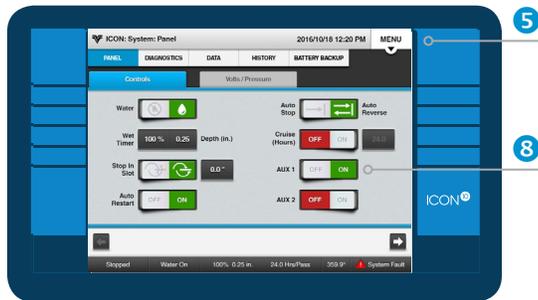
CONTROLLING AUXILIARY RELAYS

5. Push **Menu, System, Panel,** and **Controls**.

8. Push the **Aux1** or **Aux2** button to turn **ON** or **OFF**.

⑨
⑩

SETTING THE END GUN

9. Push **Menu, Utilities,** and **End Guns**.

10. Check the **EG** (end gun) checkbox to enable it.

- Push the EG to configure the end guns
- Select the **Left** field (end gun on angle) for a sequence **Pair**, and enter the degrees on the numeric keypad. Push **ENTER**.
- Select the **Right** field (end gun off angle) for a sequence **Pair**, and enter the degrees on the numeric keypad. Push **ENTER**.
- Repeat steps 4 and 5 for other sequence pairs as needed. Use the arrows at the bottom of the screen to view other sequence pairs.

System Stop Descriptions

System Stop	Description
Command	The machine was intentionally commanded to stop by pushing the Stop button.
Stop-In-Slot (SIS)	The current machine position matches the Stop-In-Slot position while the machine was waiting/running.
Daily Ops	With the Daily Ops Control enabled and Daily Ops Mode selected, the system was started outside of the start/stop range of Daily Ops.
Program	A stop command in a step or sector program shut down the machine.
Auto-Stop	The Auto Stop boundary was reached and shut down the machine.

System Fault Descriptions

System Fault	Description
System Power Lost	Voltage dropped below half the low voltage limit for 3 seconds or more while the machine was waiting/running with water on or more than 1 second if running with water off.
System Power Low	Voltage fell below the low voltage limit for 15 seconds or more while the machine was waiting/running.
System Safety	Safety circuit was de-energized for more than 3 seconds.
Low Pressure	Water pressure fell below the Low Pressure Limit for more than the Operating Pressure Delay time while the machine was running with water on and after the Startup Pressure Delay has expired.
High Pressure	Water pressure remained above the High Pressure Limit for at least the High Pressure Shutdown Delay time.
NVMEM	E01 error is active, Memory Error, Backup Battery failure.
Forward/Reverse	Both the forward and reverse circuits were on for more than 15 seconds while the machine was waiting/running
Operating Sector	With AR/AS and For/Rev Position both enabled, the machine is waiting running or was started outside of the Forward or Reverse Position angles.
Wind	With Wind Shutdown enabled, the Wind Speed went above the Wind Speed Limit for more than 1 minute while the machine is running with water on.
Temperature	With the Temperature Shutdown enabled, the Current Temperature goes below the Low Temperature Limit while water is on.
Rain	With the Rain Shutdown enabled, the Total Rainfall for the Rain Window goes above the Rain Shutdown Limit while water is on.
Flow	While the machine is running with water on, the Flow Rate falls below the Low Flow Limit after adequate water pressure has been achieved.
Water Timer	With the Water Timer enabled, the time accumulated by the Overwater Timer is greater than the Overwater Shutdown time
Tire Pressure	With Shutdown Pressure Control enabled, the Reported Tire Pressure of a tire is below the Nominal Tire Pressure for that tire's tower by at least the Shutdown Pressure Drop for two consecutive sensor readings.
GPS Com	With GPS Position and Shutdown On Position Loss enabled, while the machine is waiting/running there has been no GPS communications and the Shutdown On Position Loss Delay time has expired.
GPS Lock	With GPS Position and Shutdown On Position Loss enabled, while the machine is waiting/running the GPS Lock Status is None and the Shutdown On Position Loss Delay time has expired.
Cut Cable	A cut cable was Detected when the machine was started.
PCB Hardware	PCB hardware issue detected while the machine is waiting/running.
12V Power	With Backup Battery enabled, the battery backup supply voltage fell below 10 volts or the unit has been powered from the battery backup supply and the Battery Backup Time has expired.
Position Encoder Com	With the Position Encoder option and Shutdown On Position Loss enabled, and while the machine is waiting/running the position encoder has not been communicating and the Shutdown On Position Loss Delay time has expired.
License	The protocol license is not valid.

Error Codes & Descriptions

Error	Description
E01	NVMEM corrupted
E02	PCB hardware issue
E03	Software reset
E04	Power drop below low voltage limit
E05	System safety lost
E06	Pressure too low after pressure delay
E07	Pressure (mV) sensor out of range high
E08	Pressure (mV) sensor out of range low
E09	Pressure (mA) sensor out of range high
E10	Pressure (mA) sensor out of range low
E11	Pressure switch active with pump off
E12	Not used
E13	Not used
E14	FWD/REV sense shorted
E15	Underwater error
E16	VDC communication error – primary COM module
E17	VRI–iS sprinkler communication error
E18	GPS communications error
E19	GPS signal loss
E20	DGPS signal loss
E21	Flow rate below low flow limit
E22	Pressure above high pressure limit
E23	PLC communications error
E24	Valve duty cycles re-synced due to high pressure
E25	GPS coordinates out of range
E26	Low tire pressure
E27	TPMS communications error
E28	VDC Error Report message received

VALLEY