



SmartBox[®] + Introduction: Icon Glossary



This document provides an outline on what each icon of the SmartBox+ User Interface represents

SmartBox is a registered trademark of AMVAC Chemical Corporation

The following icons appear on the main SmartBox+ run screen:



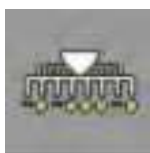
Master Switch

Product application on/off – all rows



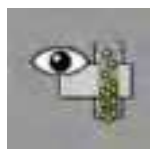
Trip Meter

Go to the 'Trips' screen
View area applied per product
View weight applied per product
Clear area/weight applied for the current field (trip)
Clear area/weight applied for the season (all trips)



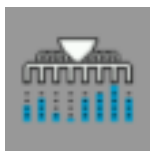
Section Control View

View Section Control status for all rows individually



Blockage View

View blockage status for all rows individually



Row Rate View

View as applied rate information for all rows individually



Section Control

Switch Section Control on or off



Settings

Go to the Settings screen



Rate Increase – Product 1

Increase the rate manually – product 1 only



Rate Decrease – Product 1

Decrease the rate manually – product 1 only



Rate Default – Product 1

Set the rate to the default rate – product 1 only



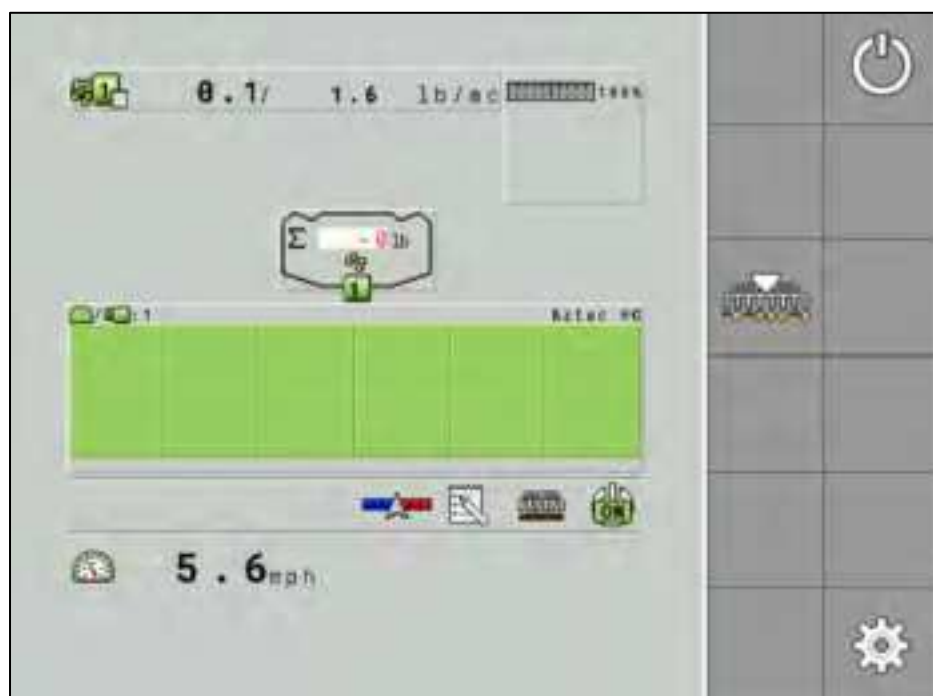
Task Control Rate On/Off – Product 1

Set the rate to be controlled either manually or automatically by the prescription (i.e. task control)



Return

Return to the previous set of icons





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Rate Edit – All Products

Change target rate for all products at the same time



Section Control Manual Override

Touch to toggle the section control between the following settings:

On – automatic control

Off – manual override – permanent off

(One button for each row, up to 12 rows, above 12 rows one button controls 2 rows)



Rate Edit – Product 1

Touch to open the rate edit controls on the right hand side icon set.

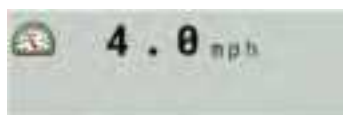


Hopper info – Product 1

Touch to open the hopper information screen.

Showing:

Current hopper fill level (all rows combined for the selected product)



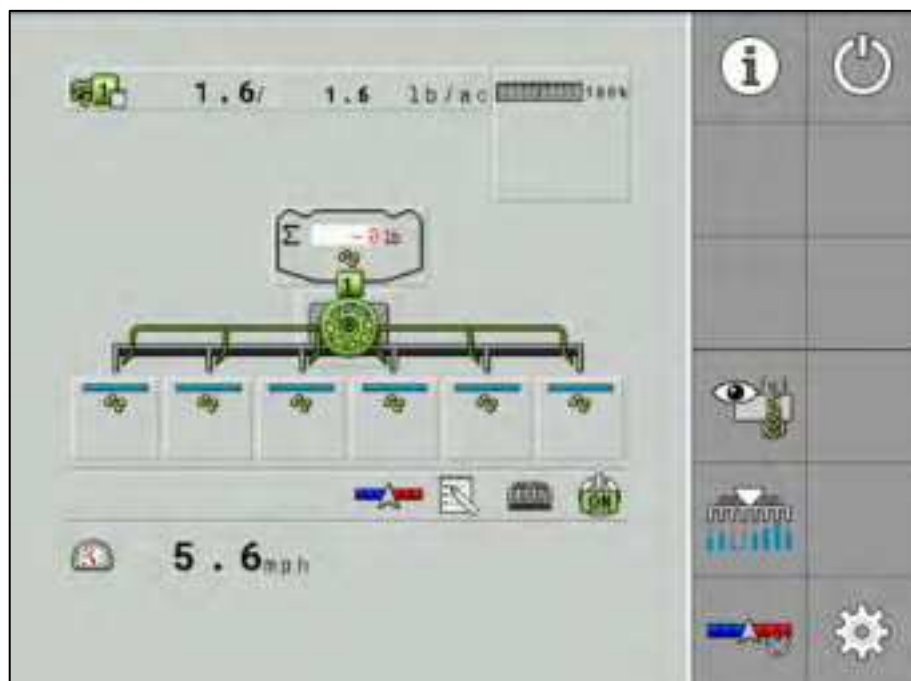
System Status bar

Shows system status

Touch to toggle between:

Speed

Meter RPM (per product – average across all rows)





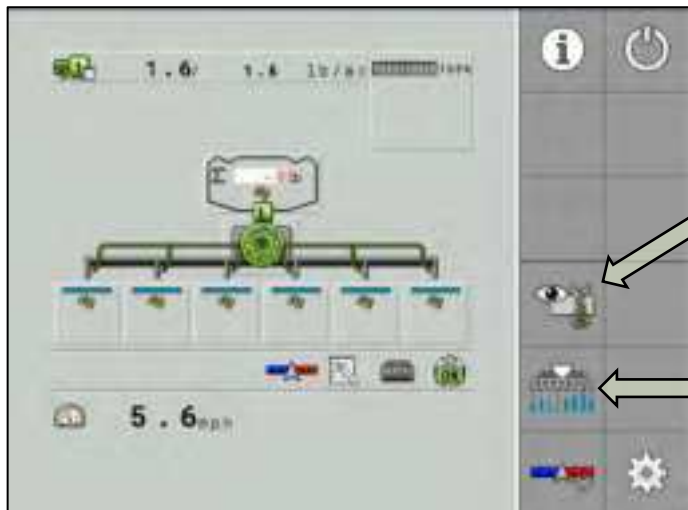
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Section Control view



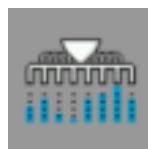
Navigating between views



Blockage View

Switch from the Section Control view to the Blockage view.

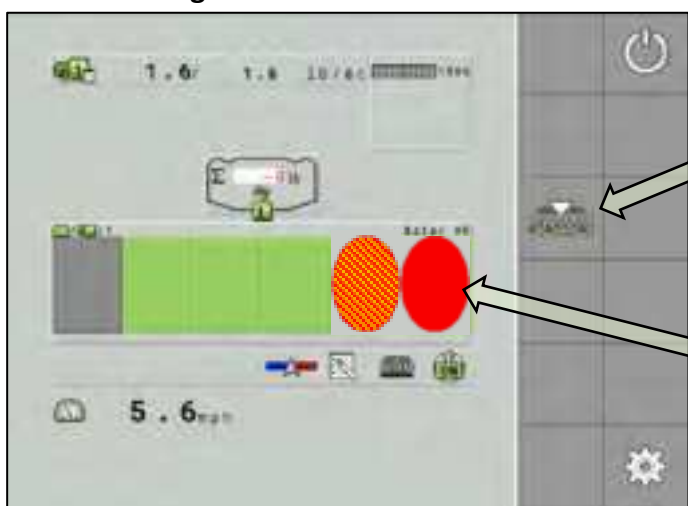
This icon is also used to switch from the Row Rate View to the Blockage view



Row Rate View

Switch to Row Rate View to view rate information for all rows individually

Main blockage view



Switch to Section Control view

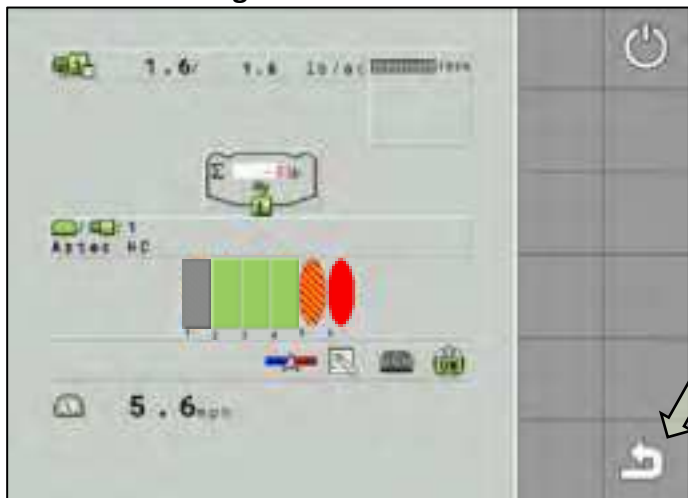
Switch from the blockage view to the section control view

This icon is also used to switch from the Row Rate View to the Section Control view.

Detailed product blockage view

Touch the product bar to view blockage information for each row

Detailed blockage view



Return from detailed blockage view

Return from the detailed blockage view to the main blockage view



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The following blockage icons appear on the main SmartBox+ run screen:

Blockage state indicators

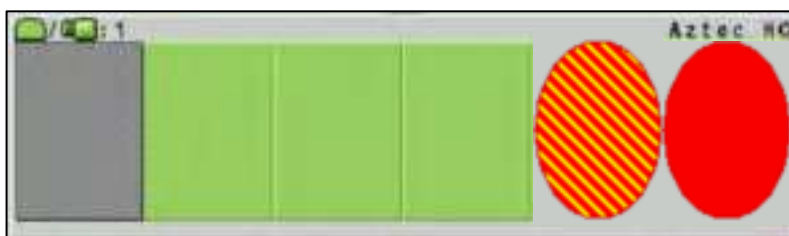
Each row represents 1 product

Each column represents 1 row

Touch the product bar to view

blockage information for a single

product

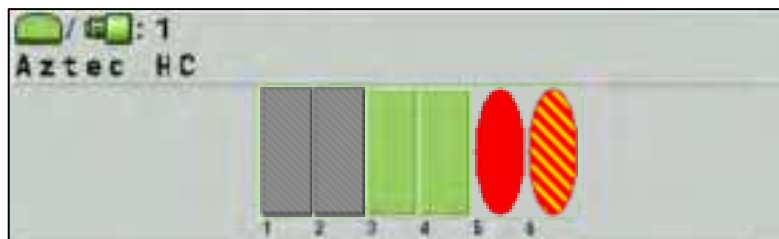


Detailed product blockage view

Each column represents 1 row

Touch the product bar at the top to

switch products



Blockage indicators

Master switch off or Section
Commanded off



Master switch on –
product applying



Master switch on – no
product (cartridge empty)



Master switch on –
product blocked



Implement Lifted

When system operation is stopped due to the planter being lifted, or due to being commanded off by section control; the blockage view icons change to grey icons.

The blockage view resumes operation once the planter is lowered and the system begins operation





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The following icons appear on the main SmartBox+ settings screen:



Settings - Hopper

Opens the hopper settings screen.
Set the product associated with each channel
View SmartCartridge information

Hopper Screen icon:



Disable/Enable each channel



Settings – Metering Units – All products

Opens the Metering Unit settings screen
Set the target rate (if not using a prescription)
Set the calibration factor (for individual rows, or all at once)
Set the target rate increment/decrement value

Metering Unit Screen icon:



Start the calibration procedure



Settings – Blockage – All products

Opens blockage settings screen
Disable the blockage system
Set blockage sensitivity for; All rows, single row or a range of rows



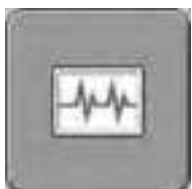
Settings - Speed

Opens the blockage settings screen
Set the speed source for the SmartBox system
Set Simulated speed for system testing



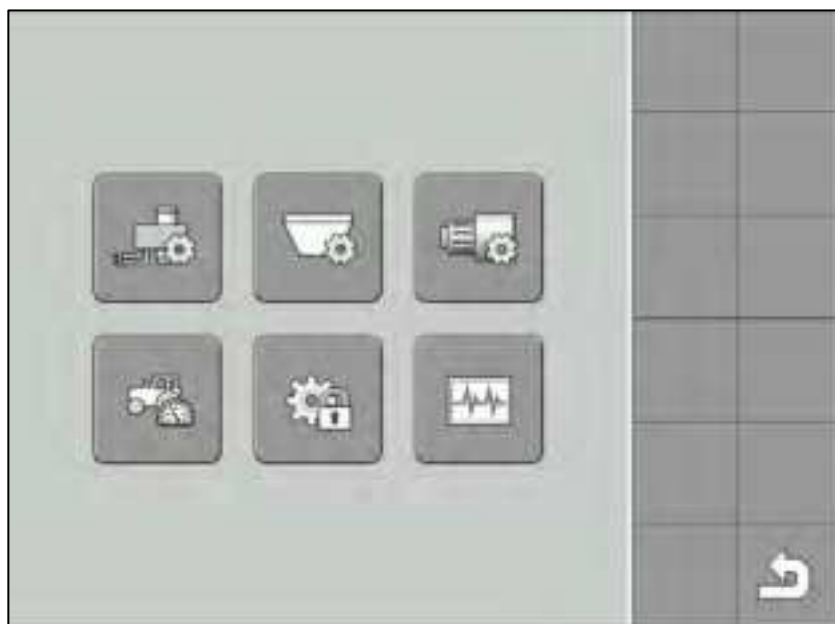
Settings – Advanced Configuration

Opens the Advanced Configuration screen
Set the machine configuration



Settings - Diagnostics

Opens the diagnostics screen





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The following icons appear on the SmartBox+ advanced configuration screen:



Configuration – Implement

Opens the Configuration Implement screen

Set the Machine name

Set the Shutoff Speed (minimum operating speed)

Set the Override Speed

Set the Working Position (lift switch)

Set the Bin Chaining method (if required)



Configuration – Metering Unit

Opens the Metering Unit Configuration screen

Set the Pre-start speed and Mph

Set the range for the as-applied rate view



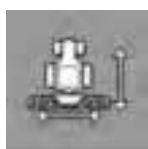
Configuration – (?)

Opens the Configuration Channel screen

Set the Number of Sections (number of rows)

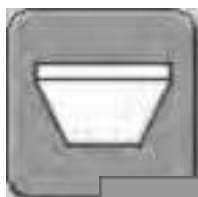
Set the Total Working Width (row spacing multiplied by number of rows)

Open the individual row setup screen (set the individual row width)



Configuration – Implement – Implement offset

Set the implement offset



Configuration - Hopper

Opens the Hopper Configuration screen

Set the Maximum Hopper Capacity (for all rows)

Set the Low Level Threshold (low product warning, for all rows)

Open the Individual Hopper settings screen (set the low level threshold individually for each row)



Configuration – Meter addressing

Opens the Meter Addressing screen

View the Missing Modules screen



Configuration – Missing modules

View the missing modules diagnostic screen

Within in this screen, you will see the **sub-hopper setup icon**. This opens the screens that can be used to set the capacity and low-level threshold of each row for each product.

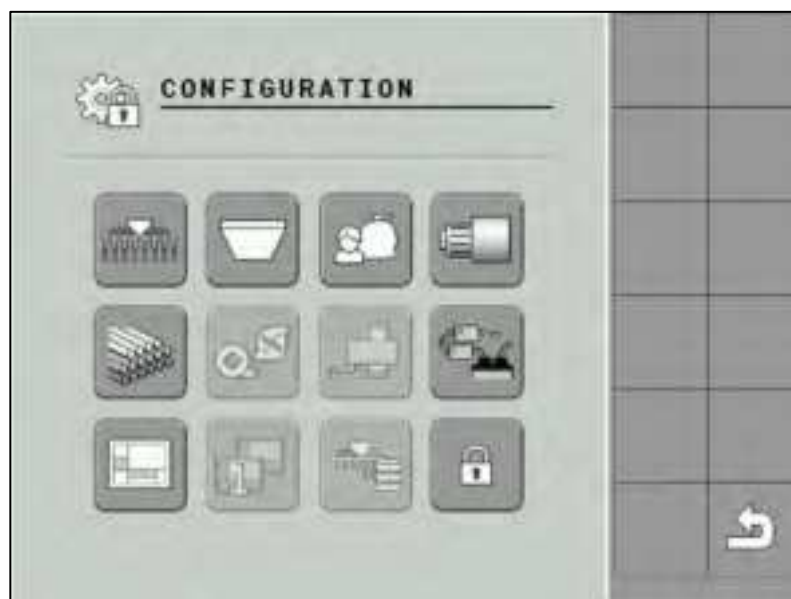


Configuration – Product Database

Opens the Product Database Configuration screen

View the product type (do not edit)

View the calibration factor (do not edit)





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The following icons appear on the SmartBox+ diagnostics screen:



Diagnostics – Implement

Opens the Implement diagnostics screen

View the current lift switch status



Diagnostics - Hopper

Opens the Hopper diagnostics screen

View the current hopper fill levels



Diagnostics – Metering Unit

Opens the Metering Unit diagnostics screen

For all meters view:

The current RPM

The requested RPM

The current accumulated pulses

The current meter voltage

The meter motor angle

The meter blockage state

The meter firmware version

The RFID module version

The RFID signal strength

View the Blockage Contamination percentage

View Blockage Feedback readings

View Blockage Emission readings



Diagnostics – Alarms and Warnings

Opens the Alarms and Warnings diagnostics screen

View history of Alarms and

Warnings for the current power cycle



Diagnostics - ECU

Opens the ECU Diagnostics screen

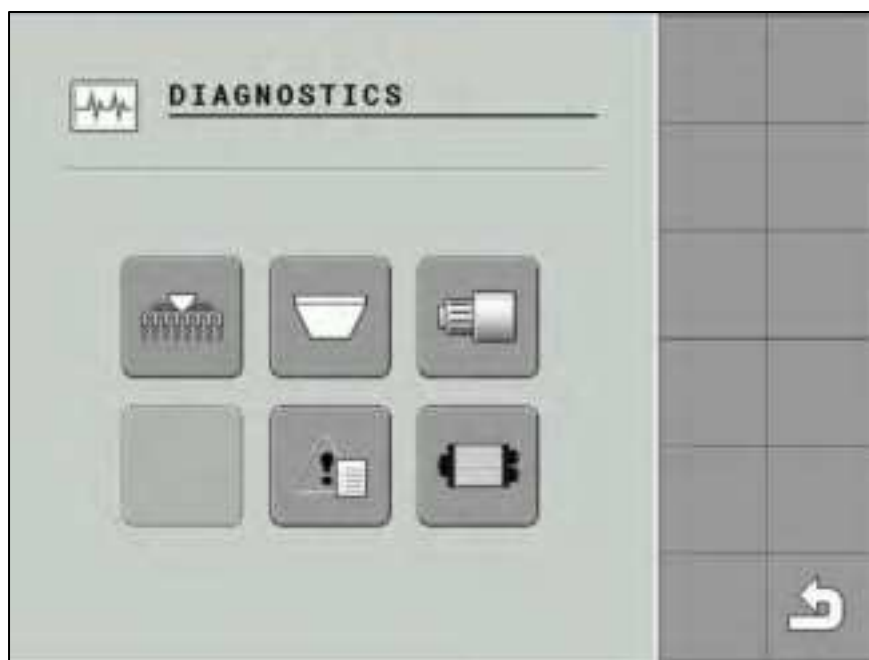
View the current Power Voltage for the ECU (input/battery voltage)

View the current Sensor Voltage for the ECU

View the current ECU ISOBUS Termination state

View the main ISOBUS CANload percentage

View the secondary ISOBUS CANLoad percentage



ECU Diagnostics – Version information

View the current ECU software version

View the current Module software version

View the current RFID software version



ECU Diagnostics – Restart ECU

Restart the ECU



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The following icons appear on the SmartBox+ metering unit diagnostics screen:



Product icon

Touch this icon to view individual row information for that product.

Note: On this screen the black RPM status text represents an average RPM for all rows.

Note: On this screen the blue text is an edit that allows the user to enter a manual RPM for all rows for that product.

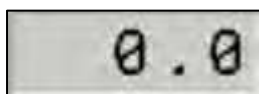


Product and Row

This icon indicates the product and row number.

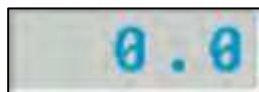
(Big number is the product, small number is the row number)

The colored circular icon to the top right represents the current blockage state for the meter.



Current meter RPM

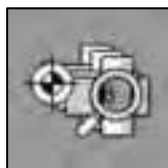
This text reflects the current RPM turned by the meter.



Requested meter RPM

This text represents the RPM the meter is trying to achieve. This number can be manually edited to request the meter(s) to run at a specific RPM.

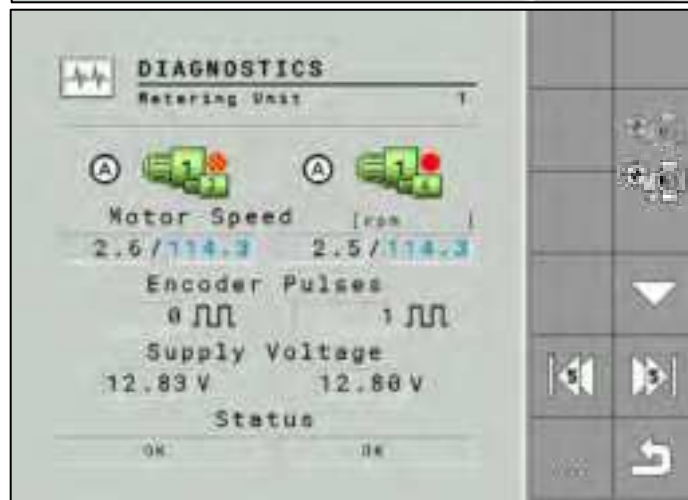
If the system is running, this number represents the RPM calculated by the system to meet the target rate.



Rescan Contamination

The Rescan contamination icon can be used to force the system to re-calculate the contamination value for the blockage system.

Note: The Master switch must off.



Next page icon

The Next Page icon can be used to switch to the next 2 rows for that product.



Additional Diagnostic Information

Use the Up/Down arrows to view the following diagnostic information:

Meter firmware version

RFID Module firmware version

RFID Signal Strength

Blockage Contamination value

Blockage Feedback value

Blockage Emission value



Skip forward/back 5 rows icon

The Skip Forward 5 Rows icon can be used to skip 5 rows forward or back.





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The following icons appear on the SmartBox+ advanced configuration screen:



Configuration – Run Screen layout
Opens the Configuration Layout screen
Set the layout of the main run screen

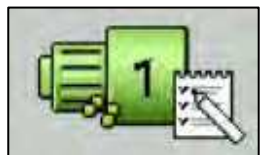


Configuration – Password unlock
Unlock advanced UI with appropriate codes

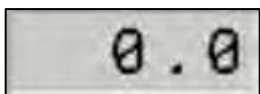
The following icons appear on multiple SmartBox+ software screens:



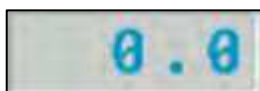
Product 1, Metering Unit 1
In the following screens:
Metering Unit settings
Calibration setup
Metering Unit Diagnostics
This icon indicates the product and row number.
(Big number is the product, small number is the row number)



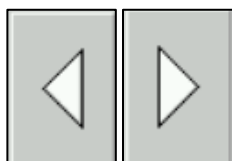
Notepad icon:
The notepad icon indicates that Task Control is active for the product indicated by the number



Status text:
In all screens a text entry with black text indicates the text is a status and cannot be edited.
(Note: Except for the profile selection screen, after a complete reset)



Editable text:
In all screens a text entry with blue text indicates the text is a status and can be edited.



Left/Right icons:
The Left and Right icons can be used to switch products on multiple screens throughout the SIMPAS software



Next page icon:
In all screens the Next Page icon will move to additional setup screens. Depending on the screen, the Next Page icon can be used to switch between products or rows.



Return icon:
The Return Icon can be used to return to the previous screen



Up/Down icons:
The presence of the Up or Down icons indicates there are additional pages of information available to view. Use these icons to navigate up or down to see the additional information.

