



1-800-568-9188

www.valortpms.com

4320 Harvester Rd., Floor 2

Burlington, ON, L7L 5S4, Canada

TPMS Gauge - User Manual



Proprietary Information

Please read this User Manual carefully before using this product.

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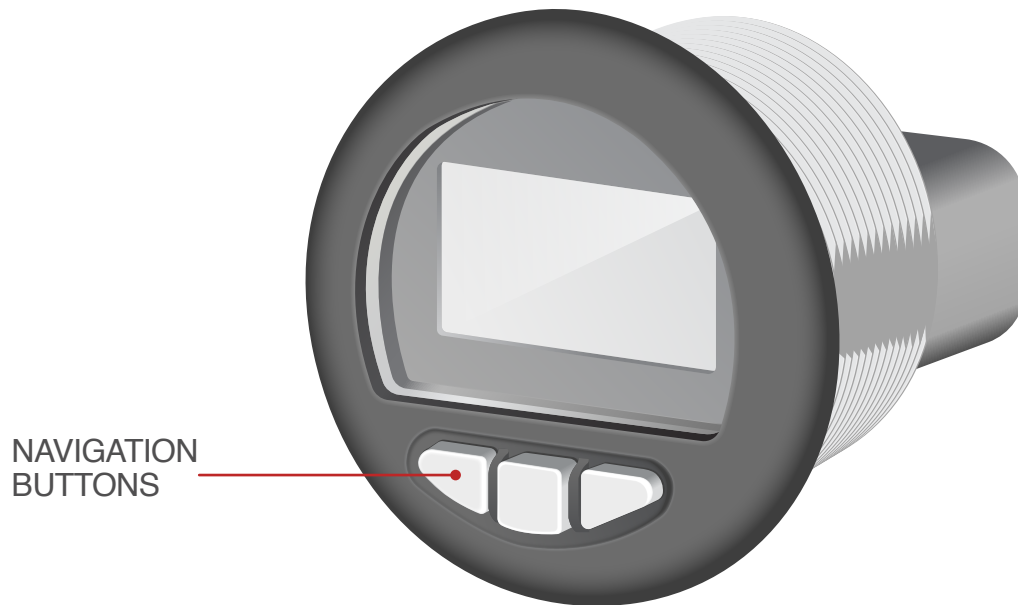
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User Manual Overview



Description of Device

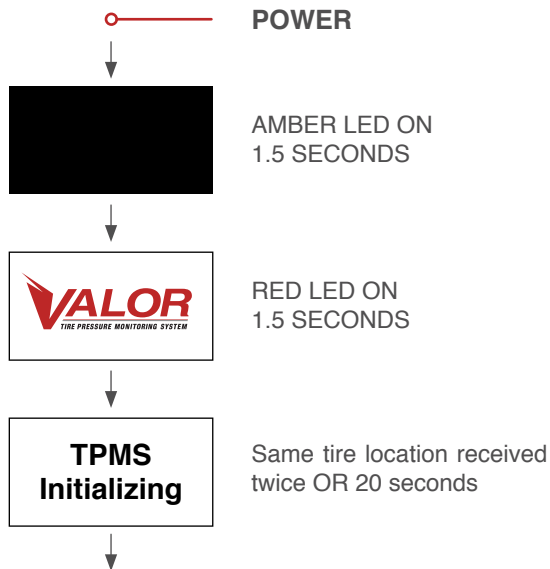
1. There are 3 buttons for navigating the screens through an intuitive menu system.
2. Back-lighting can be controlled through the panel lamp dimmer input through the menu screen. A dead-fronted warning indicator is positioned above the graphic display window and is capable of illuminating as an amber or red warning.
3. This user guide is intended to help you understand functionality of the C-COM 2G module.

User Manual Overview

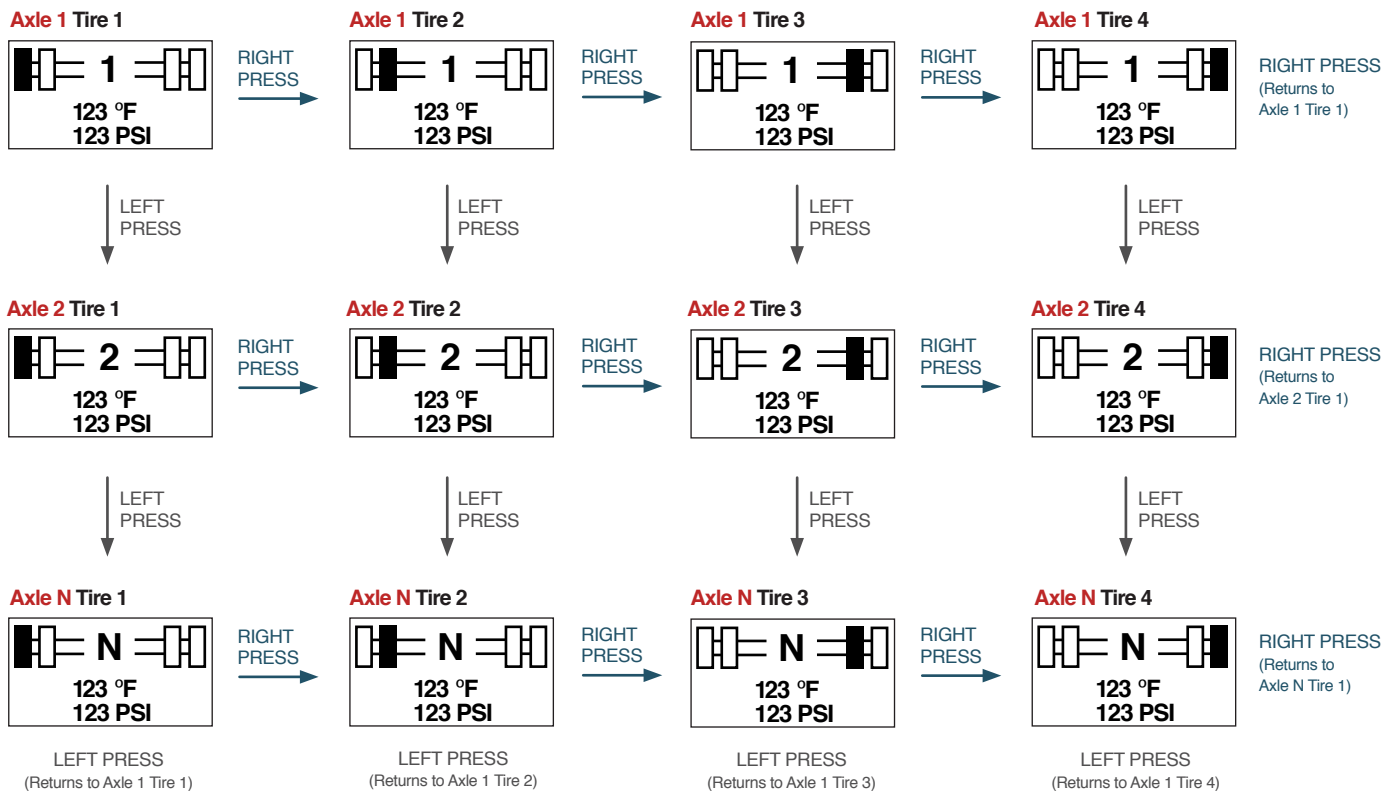
Main Screens

LEFT HOLD will start 2.5 second automatic rotation **decrementing** through Tire position, then Axle position. When on the lowest Axle-Tire position, it will then repeat from highest Axle-Tire position. ANY button press will stop rotation.

RIGHT HOLD will start 2.5 second automatic rotation **incrementing** Tire position, then Axle position. When on the highest Axle-Tire position, it will then repeat from lowest Axle-Tire position. ANY button press will stop rotation.



Main Screens

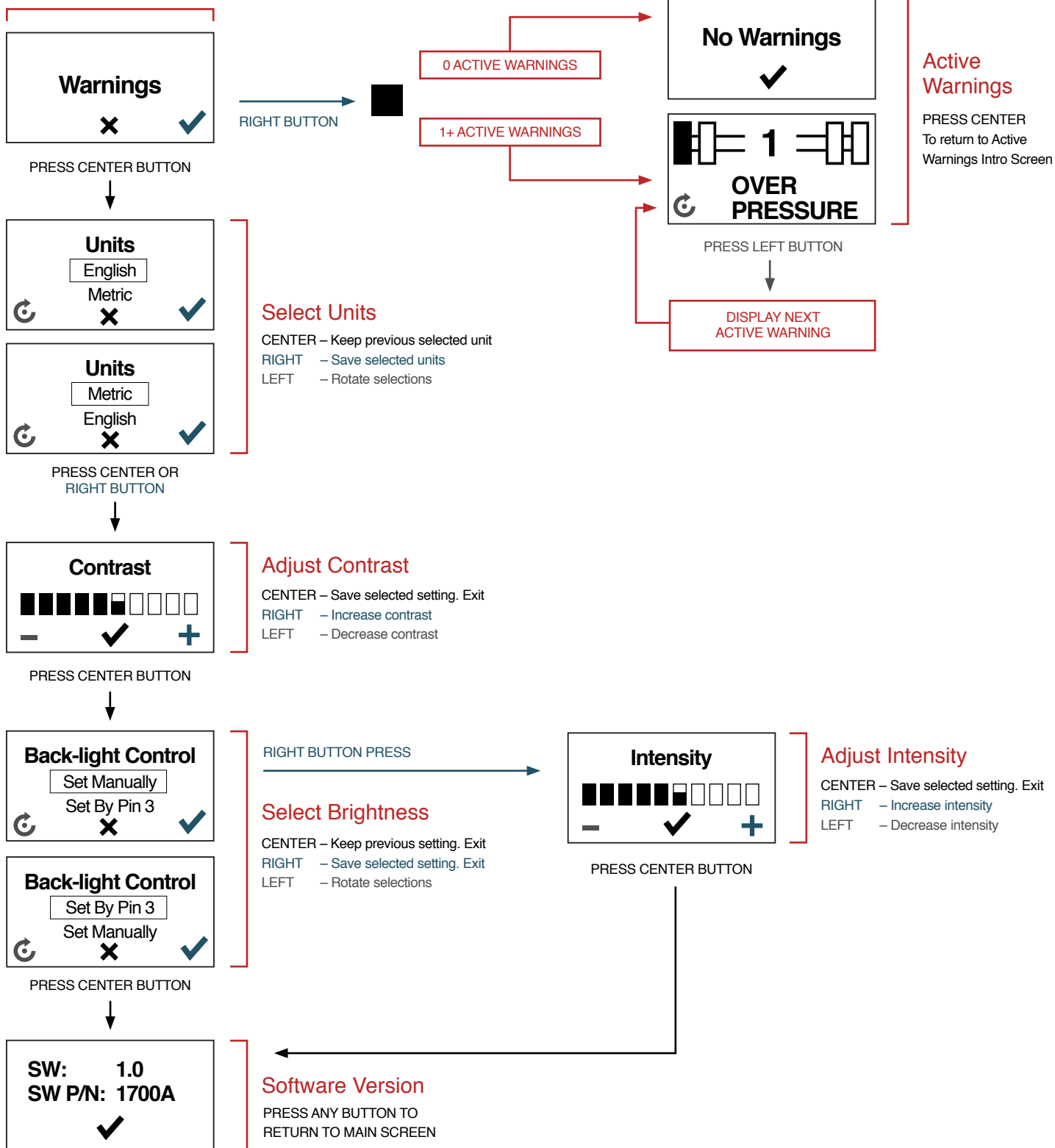


HOLD CENTER BUTTON
(Takes You To Setup And Info Screens)

User Manual Overview

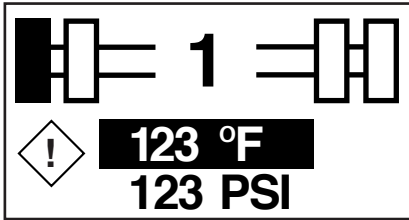
Setup And Info Screens

Active Warnings Intro



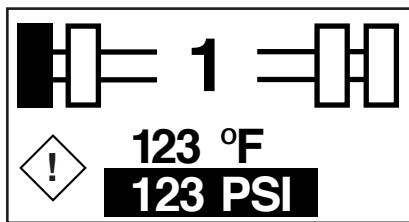
User Manual Overview

Additional Displays



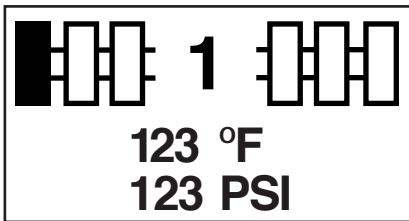
Temperature Warning

Axle 1 Tire 1 has temperature warning.

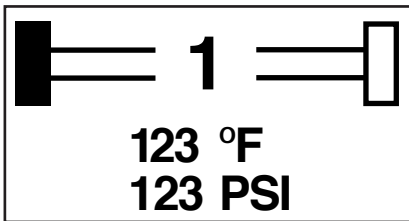


Pressure or Leak Warning

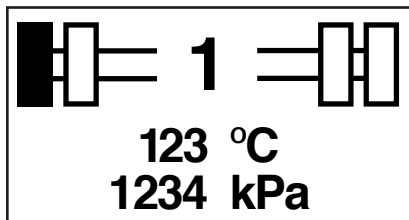
Axle 1 Tire 1 has a pressure or leak warning.



6 Tires Per Axle



2 Tires Per Axle



Metric Units Selected



Tire Communication Issue

PGN 65268 never received or lost reception for 100 seconds

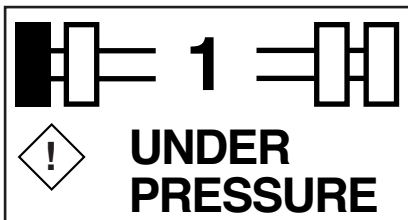
User Manual Overview

Pop-up Warnings



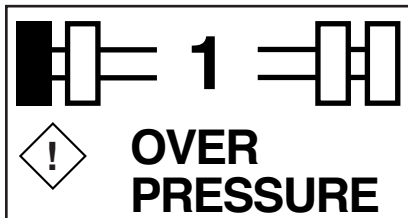
Tire Communication Issue

PGN 65268 never received or lost reception for 100 seconds



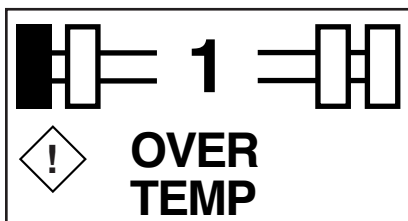
Under Pressure Warning

SPN 2587=011 or 100 Amber LED ON for 011 Red LED ON for 100



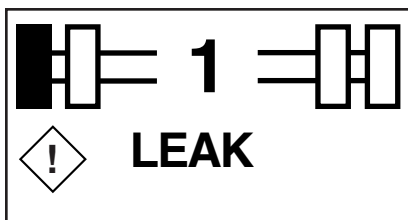
Over Pressure Warning

SPN 2587=001 Amber LED ON.



Over Temperature Warning

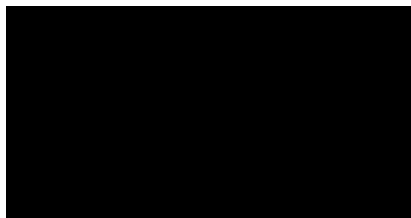
SPN 1699=01 Amber LED ON



Leak Warning

SPN 1698=01 Red LED ON

Screen Descriptions



POWER-UP SCREEN

Description

- ▶ Performed when power is turned on. Back-light turns on.
- ▶ All-LCD segments screen displays for 1.5 seconds, then Valor logo screen displays for 1.5 seconds.
- ▶ Amber LED is on for 1.5 seconds, and then Red LED is on for 1.5 seconds.
- ▶ After All-LCD segments screen (3 seconds from power on) display will go to a TPMS Initializing Screen.

LED

- ▶ Amber LED is on for 1.5 seconds, and then Red LED is on for 1.5 seconds.

Buttons

- ▶ No function.

Screen Descriptions

A rectangular box with a black border containing the text "TPMS Initializing" in a bold, black, sans-serif font.

TPMS Initializing

TPMS INITIALIZING SCREEN

Description

- Performed when power is turned on following power-up screen. When same tire location is received twice (assumes all tire locations have been transmitted in rotation) or same tire location is not received for 20 seconds, then exits to Main Screen.

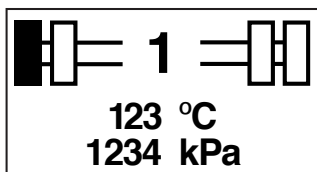
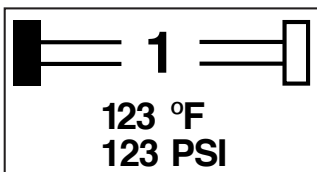
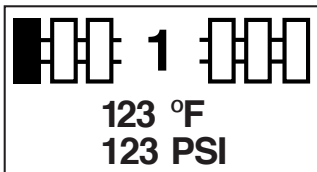
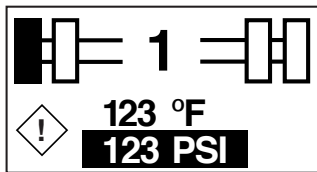
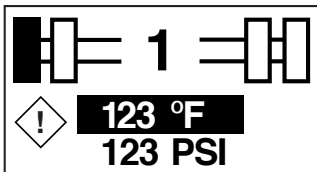
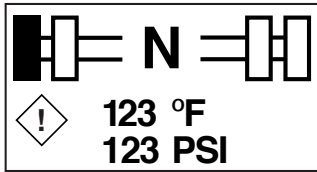
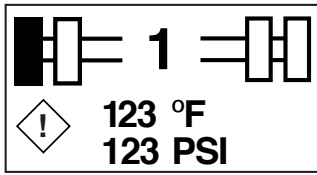
LED

- Off.

Buttons

- No function.

Screen Descriptions



MAIN SCREEN

Description

- ▶ Displays tire location, tire temperature and tire pressure. Axle position number is displayed in center.
- ▶ Tire position is filled within graphic based on position.
- ▶ Tire axle and position display is learned and populated continually.
- ▶ If a temperature warning is active for tire location, warning graphic is displayed and temperature display value is highlighted.
- ▶ If a pressure or leak warning is active for tire location, warning graphic is displayed and pressure display value is highlighted.
- ▶ Temperature value is display in nearest whole Fahrenheit (F) if English units selected, or nearest whole Celsius (C) if Metric units selected.
- ▶ Pressure value is display in nearest whole pound per square inch (PSI) if English units selected, or nearest whole kilo pascal (kPa) if Metric units selected.
- ▶ TIRE COMM warning is displayed if no sensors are received or all sensors have lost reception for 100 seconds.

Buttons

- ▶ Left Button Hold will start forward 2.5 second automatic rotation decrementing Tire position, then Axle position. When on lowest Axle-Tire position, then repeat from highest Axle-Tire position. Any button press will stop automatic rotation.
- ▶ Center Button Hold will go to Active Warning Intro screen.
- ▶ Right Button Hold will start forward 2.5 second automatic rotation incrementing Tire position, then Axle position. When on highest Axle-Tire position, then repeat from lowest Axle-Tire position. Any button press will stop automatic rotation.
- ▶ Left Button Press will go to next available Axle position or rotate back to first axle position.
- ▶ Center Button Press if in 2.5 second auto rotate sequence, will stop 2.5 second auto rotate sequence.
- ▶ Right Button Press will go to next available Tire position for axle or rotate back to first tire position for axle.

Screen Descriptions



ACTIVE WARNINGS INTRO SCREEN

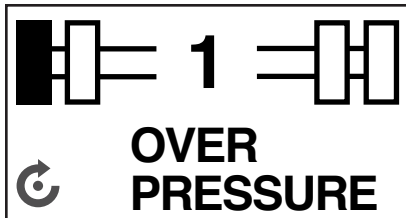
Description

- ▶ Active Warnings Intro Screen is an introductory screen for entering and reviewing active warnings.

Buttons

- ▶ Center button press will go to Units Select Screen.
- ▶ Right button press will go to Active Warnings Screen.
- ▶ Center button hold will go to Main Screen.

Screen Descriptions



ACTIVE WARNINGS SCREEN

Description

- ▶ Active Warnings Screen displays a list of all active pop-up warnings that have previously been displayed.

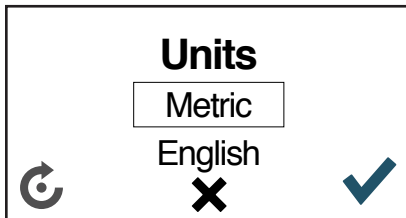
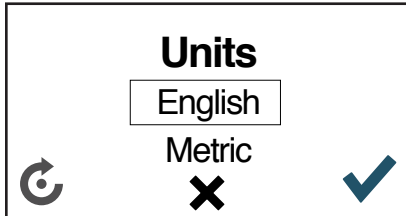
Display Items

- ▶ "No Warnings" is displayed if no pop-up warnings are active.
- ▶ If at least one pop-up warning is active, the pop-up warning will display in the list.

Buttons

- ▶ Center button press will go to Active Warnings Intro Screen.
- ▶ Left button press, if at least one pop-up warning is active, will go to next active pop-up warning in list.
- ▶ Center button hold will go to Main Screen.

Screen Descriptions



SELECT UNITS SCREEN

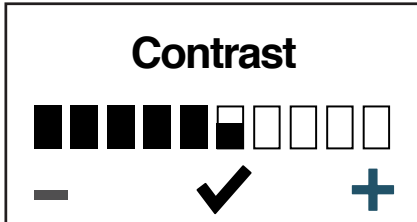
Description

- Units Select Screen allows the user to switch the displayed units between Metric and English.

Buttons

- Left button press will change setting between Metric and English.
- Right button press will save selected setting, and go to Contrast Adjust Screen. Center button press will keep setting before screen was entered and go to Contrast Adjust Screen.
- Center button hold will go to Main Screen.

Screen Descriptions



CONTRAST ADJUST SCREEN

Description

- ▶ Contrast Adjust Screen allows the user to adjust the LCD contrast setting.

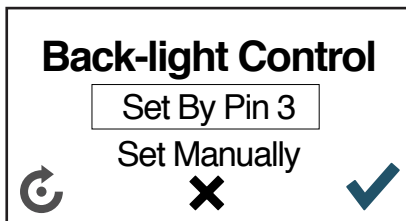
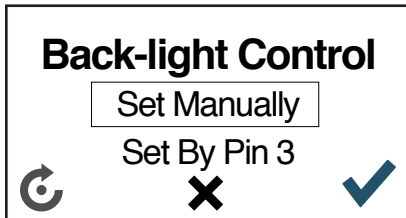
Display Items

- ▶ Contrast bar graph indication displays the current contrast setting. Range is 0- 100% with 5% resolution. Left button will decrease contrast, Right button will increase contrast, and Center button saves contrast.

Buttons

- ▶ Left button press will decrement contrast by 5% until it reaches 0%. Left button hold will decrement while button is held until it reaches 0%.
- ▶ Right button press will increment contrast by 5% until it reaches 100%. Right button hold will increment while button is held until it reaches 100%.
- ▶ Center button press will save contrast setting and go to Back-light Control Screen. Center button hold will go to Main Screen.

Screen Descriptions



BACK-LIGHT CONTROL SCREEN

Description

- ▶ Back-light Control Screen allows the user to switch the back-lighting control between an external dimmer (“Set by Pin 3” not available) or set manually in the menu screen (“Set Manually”).

Display Items

- ▶ “Set manually” sets back-lighting control to Brightness Adjust Screen setting, pin-3 has no effect.

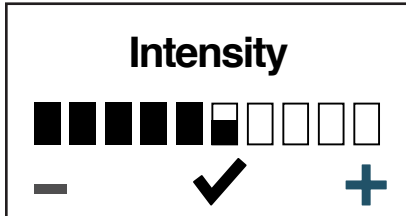
Buttons

- ▶ Left button press will change setting between “Set by Pin 3” (not available) and “Set Manually”.
- ▶ Right button press will save selected setting. If “Set Manually” is selected, will go to Brightness Adjust Screen.
- ▶ Center button press will keep setting before screen was entered and go to Software Version Information Screen.
- ▶ Center button hold will go to Main Screen.

“Set Manually” Back-lighting Control

- ▶ “Set manually” back-lighting will set the back-lighting intensity of the LCD to the setting in Brightness Adjust Screen. Range of setting is 0-100% intensity level.

Screen Descriptions



BRIGHTNESS ADJUST SCREEN

Description

- ▶ Back-light Adjust Screen allows the user to change the back-lighting intensity of the LCD.

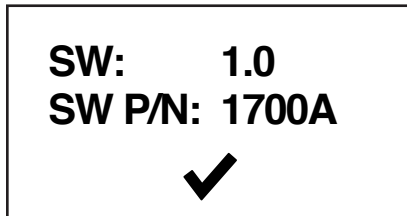
Display Items

- ▶ Intensity bar graph indication displays the current intensity setting. Range is 0- 100% with 5% resolution. Left button will decrease intensity, Right button will increase intensity, and Center button saves intensity.

Buttons

- ▶ Left button press will decrement intensity by 5% until it reaches 0%. Left button hold will decrement while button is held until it reaches 0%.
- ▶ Right button press will increment intensity by 5% until it reaches 100%. Right button hold will increment while button is held until it reaches 100%.
- ▶ Center button press will save intensity setting and go to Software Version Information Screen.
- ▶ Center button hold will go to Main Screen.

Screen Descriptions



SOFTWARE VERSION INFORMATION SCREEN

Description

- Software Version Information screen display major and minor version level and software part number.

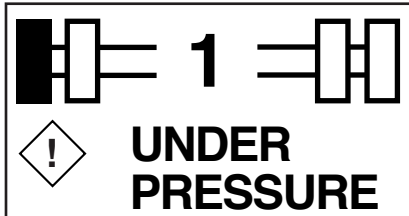
Display Items

- “SW:” + major and minor version text is Arial bold 10-point font. Center aligned.
- Valor determines major and minor version numbers.
- “SW P/N:” + part number text is Arial bold 10-point font. Center aligned. Valor determines 4-digit part number and revision letter.

Buttons

- Any Button Press will go to Main Screen.

Pop-up Warnings



UNDER PRESSURE POP-UP WARNING

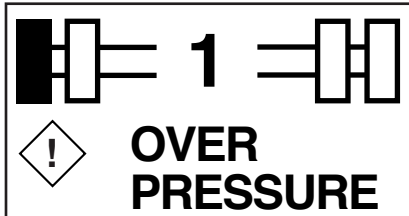
Description

- ▶ Under Pressure Pop-up Warning displays immediately
- ▶ Amber LED is on when tire is more than 12.5% below base line.
- ▶ Red LED is on when tire is more than 20% below base line.
- ▶ Warning can be reviewed in the Active Warning Screen.

Buttons

- ▶ Any button pressed will return to previous displayed screen. LED will remain on.

Pop-Up Warnings



OVER PRESSURE POP-UP WARNING

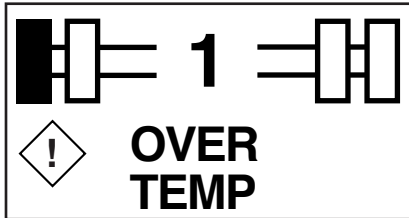
Description

- ▶ Over Pressure Pop-up Warning displays immediately
- ▶ Amber LED is on when tire is 15% over base line pressure.
- ▶ Red LED is on when tire is 30% over base line
- ▶ Warning can be reviewed in the Active Warning Screen.

Buttons

- ▶ Any button pressed will return to previous displayed screen. LED will remain on

Pop-Up Warnings



OVER TEMPERATURE POP-UP WARNING

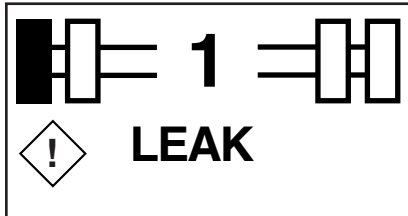
Description

- Over Temperature Pop-up Warning displays immediately and amber LED is on, if tire is over 176 degrees F.
- Warning can be reviewed in the Active Warning Screen.

Buttons

- Any button pressed will return to previous displayed screen. LED will remain on.

Pop-Up Warnings



LEAK POP-UP WARNING

Description

- Leak Pop-up Warning displays immediately and red LED is on, if system detects pressure loss of 4.8 PSI (or greater) over 16 seconds.
- Warning can be reviewed in the Active Warning Screen.

Buttons

- Any button pressed will return to previous displayed screen. LED will remain on.

Pop-Up Warnings



TIRE COMMUNICATION POP-UP WARNING

Description

- ▶ Tire Communication Pop-up Warning displays immediately and no LED is on, if signal from the Valor Can transceiver is never received or lost reception for 100 seconds.
- ▶ Warning can be reviewed in the Active Warning Screen.

Buttons

- ▶ Any button press will return to previous displayed screen. LED will remain on.