

USER MANUAL

LSM TYREGUARD® SLT360 V2 SMARTLINK™ TMSYSTEM TABLET

Please read this manual carefully before using this product.



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1. INTRODUCTION

The LSM TyreGuard® SLT360 V2 is a SMARTLINK™ TMSystem Tablet used to communicate with select LSM Technologies TMSystem products. The LSM TyreGuard® SLT360 V2 has multiple programming, reading, and transmitting functions depending on the TMSystem products and end-user application.

The LSM TyreGuard® SLT360 V2 uses the Google Android operating system. The LSM TyreGuard® SLT360 V2 can be connected to a computer via a USB-C connection so that users can download saved data for documentation and analysis.

PACKING AND ACCESSORIES

The product comes with the following components:

- LSM TyreGuard® SLT360 V2 Tablet
- USB-C Cable
- Power Adapter
- USB OTG Adapter
- Quick Reference Guide
- Operation Manual (On the tablet as an e-copy or downloaded from www.lsm.com.au)

TABLET COMPONENTS



INITIAL POWER UP

Before powering on the device, make sure it is fully charged. If the battery's charge is less than 50%, the tablet will prevent upgrading the software to the latest version. To charge the device, use the USB adapter and USB-C cable provided.

To power on the tablet, press and hold the power button on the top right of the tablet until the display turns on and the blue Doran logo appears.

The tablet will automatically power off to conserve battery if it is not used for 60 minutes.

CONNECT THE TABLET TO THE INTERNET

To connect the tablet to the internet, first select App Settings on the home screen **figure 1-1 & 1-2**. Next, select Tablet Settings. Select the WLAN button, browse for the Wi-Fi network, and connect **figure 1-3**. If the network is password protected, the tablet will prompt for a password entry.



Figure 1-1



Figure 1-2

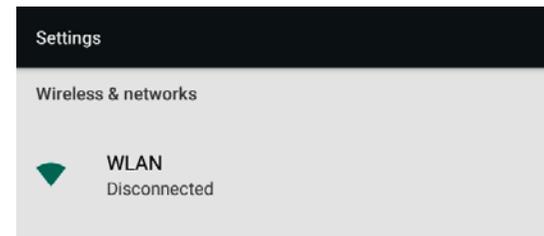


Figure 1-3

CONNECT TO A COMPUTER FOR FILE TRANSFER

The tablet can be connected to a computer with a USB-C cable to transfer stored data. To connect the tablet and computer, insert the USB-C cable into the tablet and the USB end to the computer **figure 1-4**.

On the tablet, an Android System notification will appear **figure 1-5**. Swipe down from the top notification bar and select the option below.

Select the Transfer Files option **figure 1-6**. This will allow the computer to access the internal storage of the tablet.

The tablet will now be accessible on the computer it is connected.



Figure 1-4

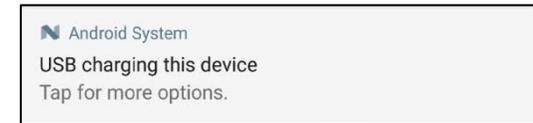


Figure 1-5

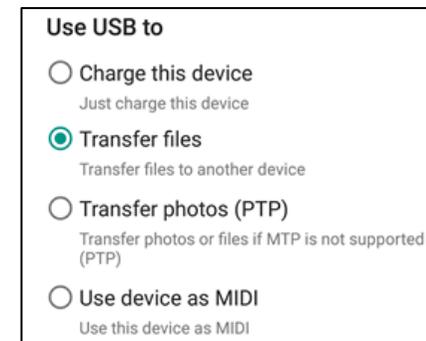


Figure 1-6

2. FUNCTIONS AND APPLICATIONS

INTRODUCTION

The LSM TyreGuard® SLT360 V2 TABLET is a multi-function TMSystem tool. Key functions include:

- **PROGRAM TRANSCEIVER**
Program asset ID, tyre pressure sensor ID, alarm threshold, and other information to a TMSystem transceiver.
- **READ TYRE SENSOR**
Read programmed and last reported data from a TMSystem transceiver and read individual tyre pressure / temperature data from some models of LSM TyreGuard® tyre pressure sensors.
- **SAVED FILES**
Access saved data from READ TYRE SENSOR functions.
- **APP SETTINGS**
Access Android settings, change the unit of measure, check for software updates, setting up an email account and view the manual.
- **ACCESS WEB PORTAL**
Access the LSM TyreGuard YardCheck 360 web portal (Only for use with YardCheck360™ products when connected to Wi-Fi).



PROGRAMING A TRANSCEIVER

After selecting the Program Transceiver icon on the home screen, the tablet will search for and display any active transceivers that are powered on and within range **figure 2-2** (For optimal reliable communication, the tablet should be less than 10 metres (35 ft) away from the transceivers).

Select the desired transceiver and the PROGRAM TRANSCEIVER screen is displayed. Transceiver ID is auto-populated. Manually enter 6-digit Asset ID **figure 2-3**.

If all tyres are inflated to the same pressure, and desired alarm notifications are the same for all tyres, the SET GLOBAL BASELINE PRESSURE function can be used **figure 2-4**. Default baseline pressure for all tyres is 698.5 kpa (100 psi).

- Cautionary Level 1 Low Pressure Alarm: 12.5% below baseline.
- Critical Level 2 Low Pressure Alarm: 25% below baseline.
- Optional High Pressure Alarm: 25% above baseline pressure.

If tyres are inflated to different pressures, or customized alarm settings are desired, do not use the SET GLOBAL BASELINE PRESSURE function.

Program tyre pressure sensor ID number, baseline pressure and alarm thresholds for each tyre / wheel position. Press the desired tyre/wheel position. Enter the full 12-digit tyre pressure sensor ID number.

Alternatively, scan the tyre pressure sensor ID QR code. Customize Low Pressure or High Pressure alert threshold (if applicable). Press CONFIRM to save the information for the selected tyre/wheel position.



Figure 2-2



Figure 2-3

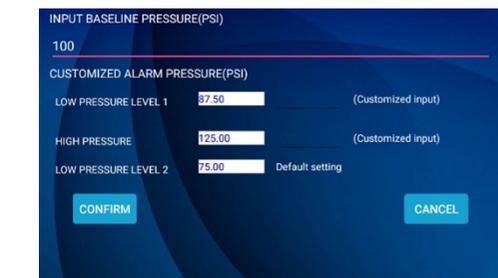


Figure 2-4

Repeat this process for all tyre/wheel positions **figure 2-5**.

The default PROGRAM TRANSCEIVER screen displays 5 axles / 20 tyre positions. To add additional axle/tyre positions, press the Right Arrow.

A programmed tyre pressure sensor can be deleted by selected the applicable tyre, then pressing the DELETE icon. A new tyre pressure sensor can now be programmed to this tyre/wheel position.

When programming is completed, press SEND DATA TO TRANSCEIVER.

READ TYRE SENSOR DATA

After selecting the Read Tyre Sensor Data on the home screen, the user is presented with three different options **figure 2-6**.

READ ONE-CLICK TRANSCEIVERS

Selecting the Read One-Click Transceivers icon **figure 2-6** will display active, powered on transceivers **figure 2-7**. Once a transceiver is selected, tyre data will populate on the TRANSCEIVER DATA graphic.



Figure 2-5



Figure 2-6



Figure 2-7

Selecting a tyre will allow the user to view populated data for Tyre Status, Pressure, Temperature, and Axle/Wheel position **figure 2-8**. User can input customized Position ID, Tyre Serial Number and Tread Depth **figure 2-9**. User can also utilize the tablet camera function to take pictures of the tyres. Pressing CONFIRM and then SAVE will save the updated information to the Tablet.

READ INDIVIDUAL TYRE SENSOR

Some versions of LSM TyreGuard® tyre pressure sensors can transmit data directly to the LSM TyreGuard® SLT360 V2 Tablet. To read a tyre pressure sensor ID number, current pressure and temperature data for an individual tyre pressure sensor, hold the tablet close to the sensor (no more than 6 inches) and press READ INDIVIDUAL TYRE SENSOR **figure 2-10 – 2-11**.



Figure 2-8

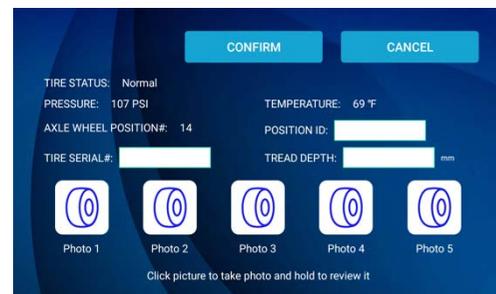


Figure 2-9



Figure 2-10



Figure 2-11

RECORD TYRE DATA

To manually record tyre data (applications that do not use LSM TyreGuard® TMSystems “One-Click” technology), select RECORD TYRE DATA **figure 2-12**.

Asset ID is manually entered.

Press the desired tyre/wheel position to scan tyre pressure sensor for automatic population of pressure/temperature data (for sensors with this function) or to manually enter pressure/temperature information **figure 2-13 - 14**.

User can input customized Position ID, Tyre Serial Number and Tread Depth **figure 2-15**. User can also utilize the tablet camera function to take pictures of the tyres. Pressing CONFIRM and then SAVE will save the updated information to the Tablet.



Figure 2-12



Figure 2-13

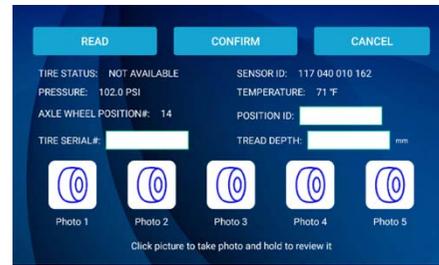


Figure 2-14

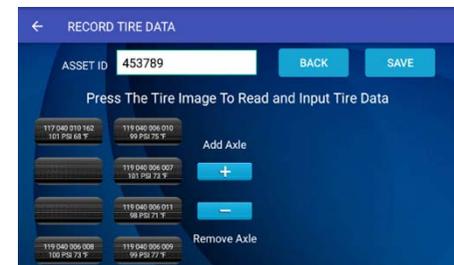


Figure 2-15

SAVED FILES

Selecting the Saved Files icon from the Home screen shows all of the assets that have been saved to the tablet. A red tyre indicates an alarm condition has been recorded **figure 2-16**. A blue dot indicates that all tyres on the asset are at correct pressures and temperatures. Pressing the Export button will save all of the data to a file located in the Doran TMSYSTEM Data folder of the tablet.

Selecting the Detail button for any of the assets will bring up a Last Reported Data screen displaying the last reported tyre pressure and temperature data **figure 2-17**.

ASSET ID	LAST UPDATED	STATUS	DETAIL
123321	2019-09-26 12:31:15	🔴	DETAIL DELETE
321123	2019-09-19 12:50:41	🔵	DETAIL DELETE
324657	2019-09-20 13:46:45	🔵	DETAIL DELETE
453789	2019-09-26 13:08:04	🔵	DETAIL DELETE

Figure 2-16

Selecting an individual tyre will bring up a detailed graph of the last 7 days of Historical Data for that specific tyre **figure 2-18**.

APP SETTINGS

- **Unit of Measurement:** The user can change the unit of measure for temperature, pressure, and tread depth measurements.
- **Check for Update:** The tablet will automatically check for update when powered on each time and pop up the update reminder if the newer version app or firmware is available. The user can also manually check for update by using this button anytime.
- **Tablet Settings:** The Tablet Settings button will navigate to Android settings such as Wi-Fi, Bluetooth, Display, language, and Notification settings. The SLT360 V2 supports both English and Spanish.
- **Emails:** The Email button will guide a user through setting up an email account on the tablet. This can be used to email saved data and photos off the tablet (when connected to Wi-Fi).
- **Manual:** The Manual button will bring up the latest version of the SLT360 V2 User Manual.



Figure 2-17

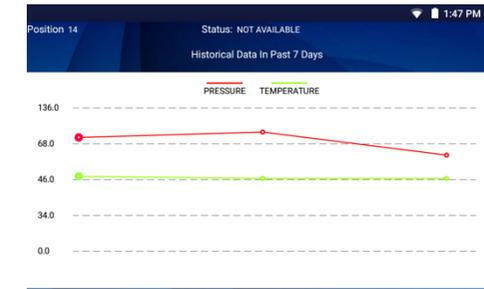


Figure 2-18



Figure 2-19

FAQs AND TIPS

WHY DOESN'T MY TABLET TURN ON?

Press and hold the power button for a few seconds until the "Doran" logo appears on a white screen. If the tablet does not power on, check if the battery needs charged.

WHY ISN'T THE SYSTEM DATE AND TIME CORRECT?

The system date and time will be auto synced when correct time zone is selected and internet connection is set through WIFI. You can also manually set the date and time in Android Tablet settings accessed through the App Setting button on the home screen.

WHY CAN'T I READ THE SENSOR DATA SUCCESSFULLY?

Verify that tyre pressure sensors are compatible with communication directly to LSM TyreGuard® SLT360 V2 Tablet. Make sure tablet is in close enough proximity to the tyre pressure sensor for reading.

WHY CAN'T I PROGRAM TRANSCEIVER OR READ TRANSCEIVER?

Make sure transceiver is powered on, and that tablet is in close enough proximity to transmit data to the transceiver / receive information from the transceiver.

WHY CAN'T I SEE THE SENSOR ID IN THE DATA READ FROM THE TRANSCEIVER?

The sensor ID is not included in the data transmission from the transceiver to the tablet. The sensor ID is only available if the data is read directly from a LFA sensor.

SPECIFICATIONS

LSM TyreGuard® SLT2 V2 TABLET SPECIFICATIONS		
Wireless Communication	Wi-Fi (2.4G)	2.4G
	Bluetooth (2.4G)	2.4G
	RF (434.1MHz)	434.1MHz
	LF (125kHz)	125kHz
Tablet Information	OS	Android 7.1.2
	Storage	8GB
	Camera	5.0MP
	Touch panel	Capacitive
	Display	7" IPS
	Screen resolution	1280 x 800
	Power Adapter	100~240V
	Battery	5000mAh
	Power consumption	<8W
	Working Temperature	0 to 55 °C
	Storage Temperature	-20 to 60 °C
	Dimensions	250Lx130Wx23H mm
Weight	0.56 kg	
Connection		USB (Type C)
		USB (OTG)
		Micro SD card

LIMITED WARRANTY

Full warranty information is available at this link to [LSM Technologies Web Site / About / Terms and Conditions](#)

CERTIFICATIONS

FCC ID: VZ4-SLT360 V2 This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions.

- This device may not cause harmful interference, and
- This device must accept any interference that may cause undesired operation

IC ID:12007A-SLT360 V2
CAN RSS-GEN/CNR-GEN

CE AND RCM

This device passed both CE and RCM test on EMC, RF, Health and LVD.



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