



Data Signs PTL-ST-1 Smart Terminal Remote Controller Instruction Manual

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SMART TERMINAL REMOTE CONTROLLER



1. RAISE TO WAKE
2. CHANGE LIGHTS



1. LOWER TO STANDBY

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The ST-1 as a PTL Remote



Your PTL Remote is normally set to pair to the Master PTL on startup, or see 'Switching ON and PAIRING the Remote'.

Status screen

The top line shows date and time, if this count is active your device is paired.

The second line shows how many units are connected. i.e. 2 Unit(s).

The third line shows the Mode the PTL is operating, i.e. SHUTTLE MODE.

The fourth line shows the remaining time for the phase.

THE MAIN SCREEN

The Main screen will display the lights for the Master on the left and the Slave on the right.

If in Gating mode only one PTL will be visible.

The battery level is shown above each light.

An Alarm will indicate if the battery reaches a 'too low' level and recharging is required.

Tap the Red lamp to change to Red if the light is on Green.


When BOTH lights are Red, you can tap either Green to change that light to Green.




Switching ON and PAIRING the Remote

A Start-up page and sequence is displayed when the ST-1 is turned ON, this is done by pressing and holding the lower-right side button.

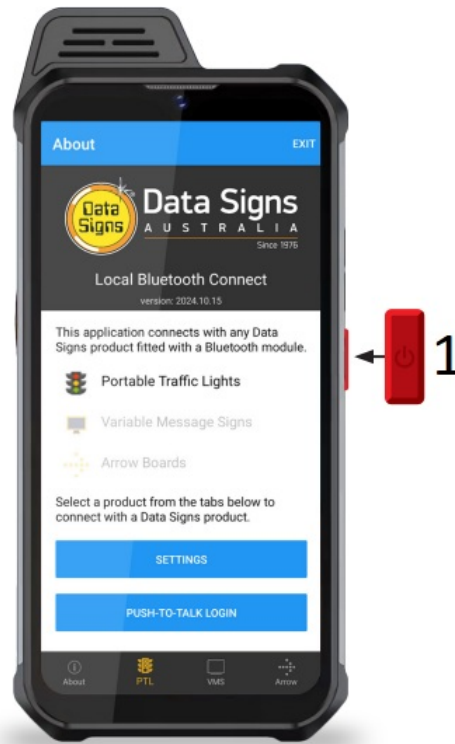
After the Startup sequence, press the  button to start the Local Connect App.

Then select PTL tab  from the tab at the bottom of the screen.

To close the application, tap the  button in the top-right corner or tap the square box in the bottom-right and swipe the application.

Exiting the app will disconnect from all devices but the devices will continue their last

operation.



1. ON SWITCH

(on side of remote)

PRESS and HOLD

Pairing to the PTL continued...

To pair to the PTL, tap the PTL icon in the footer.



If Auto Connect is enabled in Settings, the ST1 will start scanning immediately.

If Auto Connect is not enabled, tap the **SCAN** button to begin scanning.

Tap on the serial no. when it appears in the list. If Auto Connect is enabled, the remote will automatically connect with the last connected device if it is in range.

If the last connected device is not in range, the remote will continue scanning and will display all the relevant devices in range.

To stop automatically connecting with the last connected device, go to the Settings section and disable the Auto Connect option or tap the Clear Auto Connect Serial Nos button.

To stop scanning, tap the **STOP SCAN** button.



As the Bluetooth connection is established a progress sequence of 5-stars will appear, and the screen will redirect to the relevant remote screen.

To disconnect from a the PTL, tap the **EXIT** button in the top right corner.

Disconnecting will stop the Bluetooth connection, but the PTL will continue its last operation.

SHUTTLE MODE



A demand for Green or Red signal on the Master or Slave is entered on the Remote Control unit. For Shuttle Control, on startup, both the Master and Slave will rest on Red until a demand for Green is entered.

To enter a demand for either Red or Green, tap the **STOP** or **GO** buttons on the Remote Control. The DEMAND indicator is activated indicating a demand for either the Master or Slave.

You can directly select the GREEN for the opposite light: the lights will sequence through to the ALL RED sequence and then to the selected GREEN.

LIGHT CHANGE SEQUENCE EXAMPLE

Master Green

Both Red

Slave Green



REAR BEACON LAMP

The Beacon Lamps mounted behind the Traffic Lights flash on each unit when the Red Lights are ON. This is useful for the operator to know the Lamp is on RED phase when behind the actual lights. It also acts as a Caution indicator for Vehicles.

PLANT CROSSING (OR COPY MODE)

Plant-Crossing scenario is used to enable both directions of traffic flow along a roadway to be simultaneously stopped, e.g. to allow road construction vehicles (or pedestrians in a controlled environment) to cross.



On start-up, the Master is Red and the Slave copies this and is also RED.

The operator can enter a demand for Red signal using either **STOP** buttons on the

Remote. Both the Master and Slave units will then cycle to Yellow and the Red signal phase.

To change back to Green signal, tap either the Master: **GO** or Slave: **GO** buttons.


Plant Crossing Control example:

1. Both the Master and Slave are on Green.
2. Tap either the Master: **STOP** or Slave: **STOP** buttons



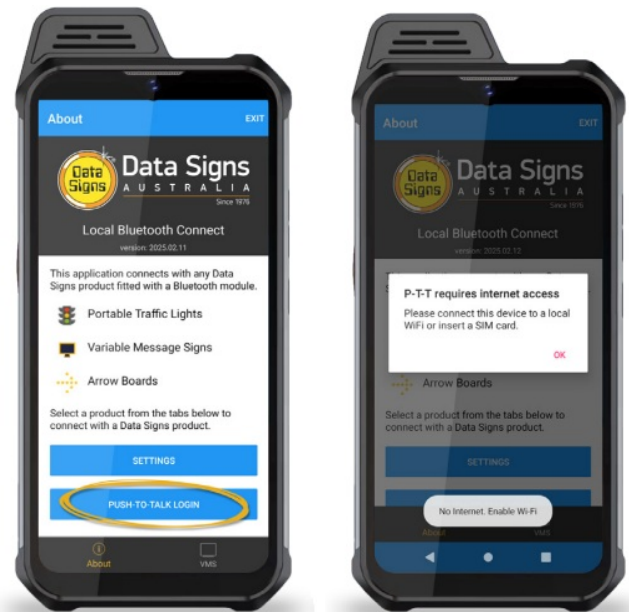
3. To resume traffic flow, tap either **GO** button.

Settings Menu

To change the settings, tap the  **About** button at the bottom of the screen then tap on the Settings Menu button:

- **Logging Enabled** – enables logging to diagnose issues
- **Auto Connect** – will automatically connect with the last connected device
- **Startup Tab** – on startup; the app will jump to this tab directly and will start scanning.
- **Clear Auto-Connect Serial Nos** – will clear the list of last connected device serial numbers
- **Clear Cache** – will clear any locally cached data

If internet access is required, a prompt will be displayed.

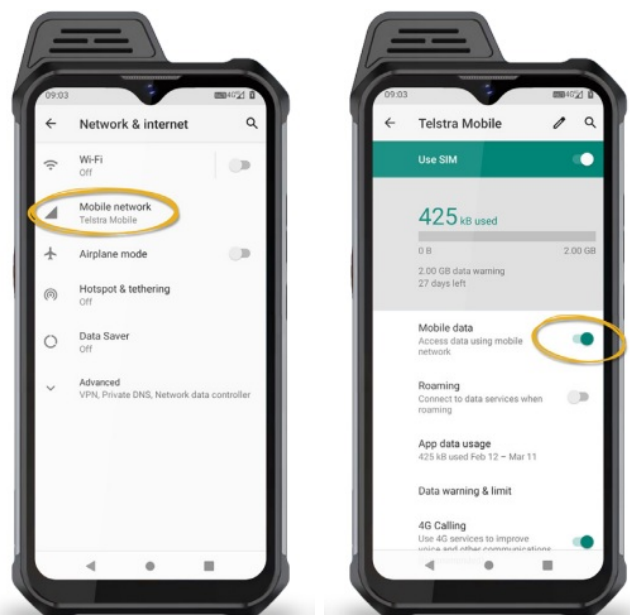


4. To enable internet access, insert a SIM card into the phone.



On the ST-1 home screen, swipe up and tap the Settings icon.

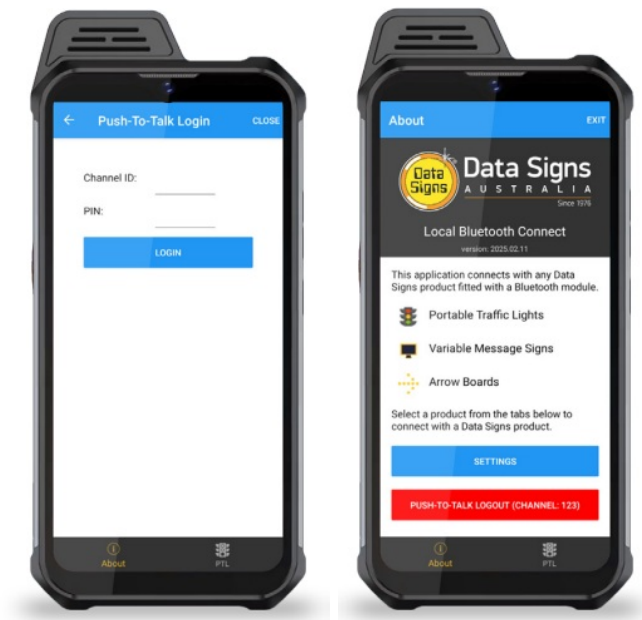
Go to Network & Internet, tap **Mobile Network** and enable **Mobile Data**.



5. After connecting to the internet, tap the **PUSH TO TALK LOGIN** button and enter the agreed Secure Channel ID and PIN.

NOTE: devices that need to communicate with each other have to login on the same Secure Channel.

6. After connecting to a Secure Channel, push the orange PTT button on the ST-1 to communicate.



Battery and Charging the ST-1

The lithium Ion batteries MUST only ever be charged using the charger supplied by Data Signs. This charger must not be modified or used for any other purpose.

Handling

In the event a battery needs to be replaced please contact Data Signs. The lithium ion batteries are generally very reliable and replacement is unusual. It is possible there are other operational issues.

For full safe handling description download document from

<https://datasigns.com.au/ServiceSupport/HelpDesk>

Glossary of Terms and Abbreviations

Aspects

The actual lights or housing that contains the Lights.

HRC

Hand-Held Radio Controller.

This term is interchangeable with PTL Remote.

Lights

Actual Traffic signal Lamps.

Red, Yellow and Green.

LiPo

Lithium Iron Phosphate.

A lightweight high energy density battery that powers the PTL.

Main PTL

Also as referred to as Master.

PTL

Portable Traffic Light.

PTL Remote

This term is interchangeable with HRC.

This is the Hand Held Remote that is used to control all the PTL Signal changes, control the Lights ON/OFF function as well as other functionality as described in this Manual.

PTSU

Portable Traffic Signal Unit.

This term is interchangeable with PTL.

Secondary PTL

Also referred to as Slave PTL.

Suggestions & Improvements

Data Signs develops its products with the end users in mind. As such, we are always open to suggestions for product improvement. Contact Data Signs, Head Office in Australia at: datasigns.com.au/help

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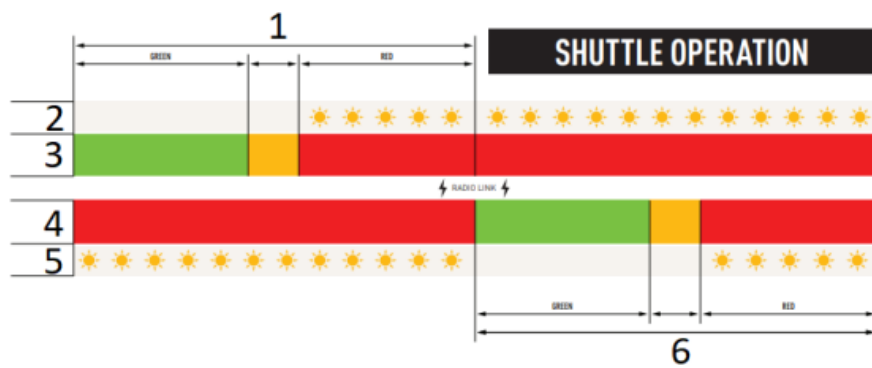
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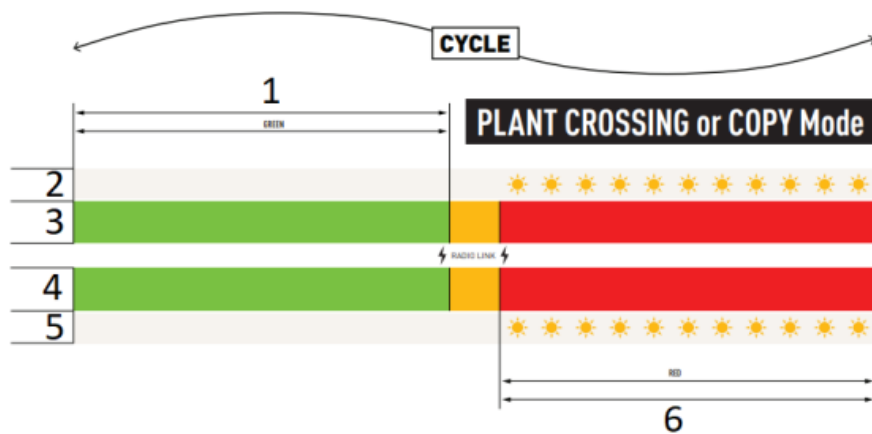
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APPENDIX A

Cycle and Phase Intervals for Shuttle and Plant Crossing Modes



1. MASTER PHASE
2. MASTER FLASHING BEACON
3. MASTER SIGNAL DISPLAY
4. SLAVE SIGNAL DISPLAY
5. SLAVE FLASHING BEACON
6. SLAVE PHASE




1. GREEN PHASE
2. MASTER FLASHING BEACON
3. MASTER SIGNAL DISPLAY
4. SLAVE SIGNAL DISPLAY
5. SLAVE FLASHING BEACON
6. RED PHASE

LEGEND:  FLASHING Beacon  YELLOW 4 seconds  



Documents / Resources

	<p>Data Signs PTL-ST-1 Smart Terminal Remote Controller [pdf] Instruction Manual</p> <p>PTL-ST-1, PTL-ST-1 Smart Terminal Remote Controller, Smart Terminal Remote Controller, Terminal Remote Controller, Remote Controller, Controller</p>
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References

- [User Manual](#)

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🔍 controller, Data Signs, PTL-ST-1, PTL-ST-1 Smart Terminal Remote Controller, Remote Controller, Smart Terminal Remote Controller, Terminal Remote Controller

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