# USB SpeedLink OTG (USB-OTG) USER GUIDE

**IMPORTANT - Please read this document before using the USB-OTG software.**
Every effort has been taken to ensure the accuracy of this document; however, we do not accept responsibility for damage, injury, loss or expense resulting from errors and omissions, and we reserve the right of amendment without notice.

**IMPORTANT - SAFETY** ⚠

If using the USB-OTG software for configuration, be aware instrument output states (analogue and relay) may change to non-defined conditions **during** the WRITE command.

Ensure any application is protected against this until any new configuration has been sent and the instrument has returned to normal operation.

While passively connected and during READ commands, the instrument will operate normally.

**IMPORTANT - REQUIREMENTS**

An Android phone or tablet running Android operating system 7 or later.

The latest version of USB SpeedLink OTG software can be downloaded from the Google Play Store or www.status.co.uk.

A USB "On the Go" (OTG) lead suitable for the USB port type on the Android phone or tablet.

A USB lead to connect the OTG lead to the instrument, this will typically be a USB A to mini-B type but may differ for some products. Please refer to datasheets for more information.

**NOTE 1–** Connection to a compatible Status Instruments Product will add an additional drain to the battery of the Android phne/tablet. Extended connection may cause the phone's/tablet's battery to completely discharge.

**NOTE 2 –** The connected instrument does not need to be powered for configuration operations. However, to read and display live data correctly within the USB-OTG software, the instrument will need to be powered.

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## 1~LIMITATIONS.

Some Status Instruments products will have limited functionality within the USB-OTG software.

Extended sensor lists, user non-linearisation tables, and some other advanced options may not be available (refer to product datasheets).

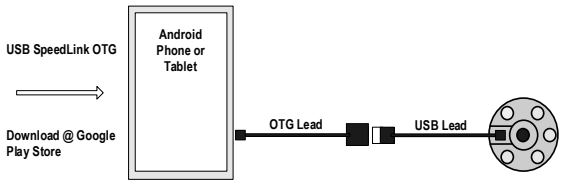
For full functionality, it may be necessary to use USB SpeedLink, the PC based version of configuration software, downloaded from https://www.status.co.uk/product/usb-speedlink/

## 2~CONNECTION.

### 2~1 SOFTWARE START

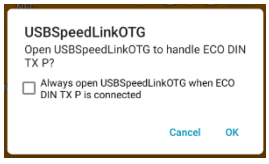
Run the USB-OTG app on the Android phone/tablet.

### 2~2 PHYSICAL CONNECTION




Connect the OTG lead to the Android phone/tablet, connect the USB lead to the OTG lead.

Connect the free end of the USB lead to the instrument to be read/configured.




The first time an instrument of a previously unconnected type is connected, a message box will appear. Tick and OK the message box to acknowledge.

When next connected to an instrument of an acknowledged type, the software will automatically launch.

The Instrument should now be recognised by the USB-OTG software and be ready for communication commands.

The home screen will open.

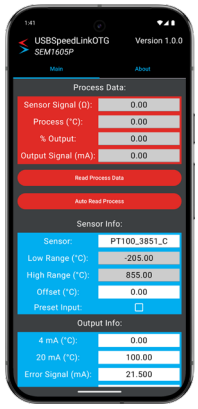
### 2~3 HOME SCREEN




From the home screen press the "Open Device Information" button.

The Device Information screen for the instrument type will open.

### 2~4 DEVICE INFORMATION SCREEN




Instrument type information will be displayed at the top of the screen.

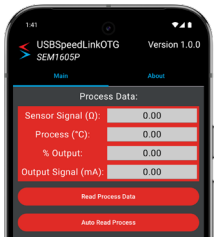
Live data can be shown in the red section.

Configuration data can be shown in the blue section

**Note:** A default configuration will be shown that may not be the current configuration stored on the instrument (see 4.1).

## 3~READ DATA

### 3~1 LIVE DATA READ




Press the red "Read Process Data" button.

Live data values for the input and output conditions will be read and displayed. If the instrument is not powered the values may show incorrect data (See NOTE 2).

The data available will vary between instruments depending on type.

### 3~2 LIVE DATA AUTO READ




Press the red "Auto Read Process" button.

Live data values for the input and output conditions will be displayed and will refresh every few seconds. If the instrument is not powered the values may show incorrect data (See NOTE 2).

Logging function (See 4~)

The button will turn pink. Press again to stop the Auto Read function.

### 3~3 LIVE DATA LARGE DISPLAY




By pressing the main process value box a large display will open on the screen of the Android device to aid reading the display at a distance

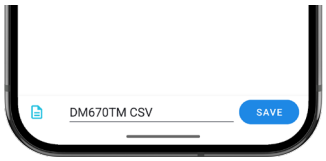
If the software is in Auto Read Process mode, the large display box will continuously update

To close the large display press on the screen outside of the box.

## 4~LOGGING

It is possible to log time stamped process data values to the connected Android device when using the OTG SpeedLink software.
The data will be saved to a .CSV file on the Android device.

On starting an Auto Read (see 3.2) an option to log data will become available.
Note: It is possible that use of some Android Apps or actions may inadvertently halt the logging function.

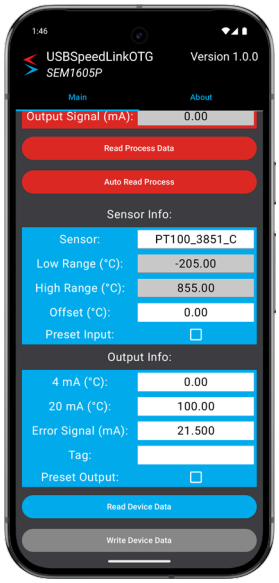



On stopping a Logged Auto Read the option to name and save the CSV datafile will be available
The CSV datafile can be opened into spreadsheet or text editing software as required.

## 5~CONFIGURATION.

### 5~1 READ CONFIGURATION

Scroll down to display the blue configuration data section of the screen display.
Initially this section will display a default configuration.

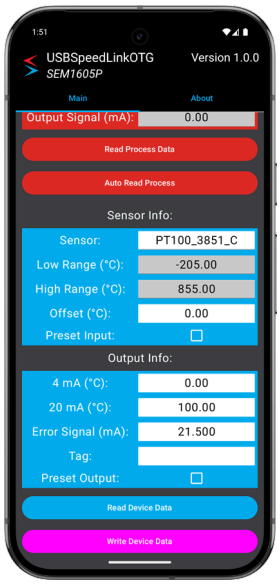



Until the configuration has been read for the first time, a new configuration cannot be sent to the instrument.
Press the blue “Read Device Data” button.

An acknowledgement on successful read should show briefly.

The instrument configuration will be displayed.

### 5~2 WRITE CONFIGURATION




The instrument configuration can now be edited as required.
The data available for configuration will vary between instruments depending on type.

**Note:** Values in Grey boxes cannot be altered

When the configuration has been entered as required, press the pink “Write Device Data” button. This will send the configuration to the instrument.

An acknowledgement on a successful write should show briefly.

Re-reading the configuration to confirm its successful transfer is recommended.

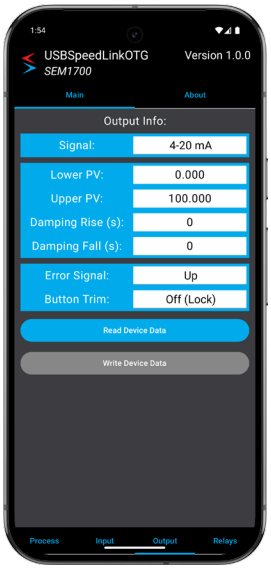
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**Note: Some instruments may have an advanced configuration that will have been set using the PC based version of SpeedLink software. If this is the case the OTG software will not be able to display the full configuration, it will also not be able to overwrite the configuration.**
**This is to avoid accidentally changing configuration values that can’t be seen.**
**If this is the case the PC based USB SpeedLink will be required.**
**The Live Data values will still be available.**

### 5~3 MULTI TAB CONFIGURATION




Some instrument types will have multiple tabs for configuration. To navigate between tabs swipe left or right as required.




Example of a multi tab instrument.

## 6~QUICK STEP GUIDE

| Configuration steps |
|---|
| Connect power, input sensor, and output as required |
| Connect Android phone/tablet to instrument, run USB-OTG software |
| Perform initial READ of the instrument configuration. |
| Modify configuration as required |
| Write new configuration to the instrument |
| Read live data to confirm correct operation of the instrument |

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