

# SSI Link Analyser



## Overview

Park Signalling's SSI Link Analyser (SLA) is a PC-based test tool providing a means to observe and record all messages being transferred on an SSI Trackside Data Link, in real-time. The SLA also detects and counts line glitches and corrupt or absent telegrams.

When the SLA is started it will 'learn' which command and reply telegrams are being transmitted on the Data Link; this information is necessary for detection of missing telegrams. A count of TFM's present on the Data Link is displayed at the bottom of the screen.

The SLA displays data and status bits for all telegrams. If a change of data or status occurs, the new data and status will be momentarily highlighted.

With the addition of the SLA Trigger Module, a fully isolated programmable trigger event can be output to ancillary test equipment.

## Error Detection

The SLA detects Manchester coding errors, parity bit errors, missing telegrams and glitches. If a coding or parity error is detected, the data contained in the telegram is deemed invalid and is discarded; this will also cause a missing telegram to be logged (in addition to the coding or parity error).

If a telegram is missing (or its sync or timing bits have been corrupted), it will be reported and logged as missing; the data and status display will be cleared until a valid telegram is received again.

If glitches (signal transitions which are not part of a telegram) are seen on the Data Link, the glitch count will be updated, and a log entry made.

Error counts, glitch counts and a total missing telegram count are displayed at the top of the screen, while individual missing telegram counts can be displayed for each telegram address.

## Logging

The SLA can log time-stamped events to a text file. There are three main types of events which can be selected for logging:

- Telegram changes - when the data or status bits of a telegram change, or a telegram is seen when it was previously missing.
- Errors - when a Manchester coding error, parity bit error, or glitch occurs.
- Missing telegrams - when a telegram is missing.

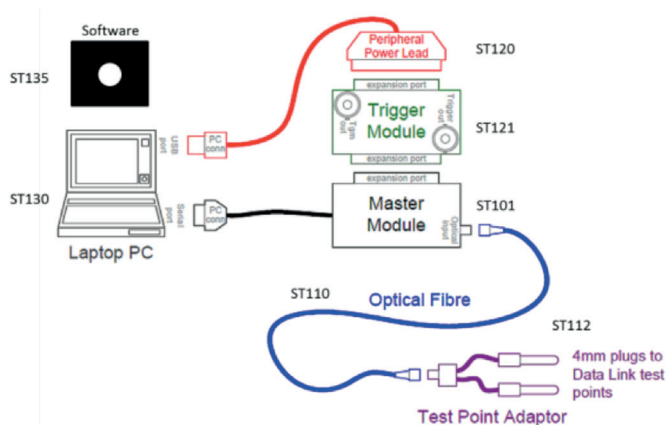
## Connections

The laptop PC can be powered by its internal battery or from a domestic mains supply. No other power supply is required.

The SLA connects to the Data Link via a test point adaptor, terminated with banana plugs (for connection to standard SSI Data Link test points). This adaptor connects to the SLA with a fibre optic lead, thus providing complete isolation from the signalling system.



PSL Part No	Description	PA Cert No	PADS
ST 101	SLA Master Module	PA05/02362	086/047237
ST 110	SLA Optical Fibre Cable	PA05/02362	086/047185
ST 112	SLA Test Point Adaptor	PA05/02362	086/047186
ST 120	SLA Peripheral Power Lead	PA05/02362	086/047188
ST 121	SLA Trigger Module	PA05/02362	086/047187
ST 130	SLA Laptop PC	PA05/02362	086/047183
ST 135	SLA Laptop PC Software	PA05/02362	Software CD



## Park Signalling

3rd Floor, Houldsworth Mill, Houldsworth Street,  
Reddish, Stockport, SK5 6DA

Tel: +44 (0) 161 219 0161

email: sales@park-signalling.co.uk

[www.park-signalling.co.uk](http://www.park-signalling.co.uk)