

The **SSI<sup>ALERT</sup>™** series is based on the field proven SPASE mk II data logger designed to meet the need for recording detailed, accurate and relevant information. This enables the behaviour of a signalling installation to be captured and reviewed to assist in such tasks as performance improvement and incident management. It has been specified functionally by signalling engineers and developed by independent experts to be the ideal monitoring solution for SSI interlockings.

The robust design incorporates modern industry standard architecture, numerous communication protocols and a host of features making it easy to install, operate and interrogate. The design of **SSI<sup>ALERT</sup>™** allows up to two SSI technicians terminals (up to 12 SSIs) to be monitored using a single unit. As each SSI message is received it is time stamped to an accuracy of 10 milliseconds before being stored in a standard database format for further processing and analysis.

**SSI<sup>ALERT</sup>™** is supplied as standard, consisting of a small industrial PC and integral UPS, which provides a very efficient method of capturing SSI data. A variation is also available to fit in a 19" rack.

**SSI<sup>ALERT</sup>™** is fully compatible with Network Rail's central intelligent infrastructure system through an XML output and is also able to produce data compatible with existing data replay systems. To maximise the benefit of the data recorded on **SSI<sup>ALERT</sup>™** it is strongly recommended that Balfour Beatty Rail's **Asset<sup>VIEW</sup>™** software system is also specified.

## Key Features

### Data Capture

**SSI<sup>ALERT</sup>™** is a very cost effective solution, capturing all available information from the SSI by making an isolated connection with the SSI technicians terminal. This data includes:

- All output messages to the trackside function modules
- All input messages from the track functional modules
- All status messages from the trackside functional modules
- All internal SSI status messages
- All internal alarms generated by the technicians terminal
- All signallers controls

**SSI<sup>ALERT</sup>™** is configured on site by using the existing SSI TAG files which are generated by the signalling designers when designing or altering an SSI scheme.

### Connectivity

**SSI<sup>ALERT</sup>™** connects to up to 12 SSI interlockings in a very efficient manner using break out cables and RS232 isolated interfaces. Each break out cable fits in line with the existing cable between the SSI technicians terminal and the SSI tape recorder or MO drive. These cables can be fitted in minutes and will read information from up to 6 interlockings. All necessary components are supplied as part of the package so **SSI<sup>ALERT</sup>™** will work 'straight from the box' once the power and monitoring connections are made.

### Power Supply

**SSI<sup>ALERT</sup>™** will operate from either a 240v or 110v AC supply. Temporary power loss is no problem for **SSI<sup>ALERT</sup>™** as it has a UPS and is designed to keep operating if a power interruption occurs in order to capture the necessary data from the SSI before it powers down.

### Local Access

**SSI<sup>ALERT</sup>™** is supplied with a standard keyboard, mouse and screen to allow the user access to all user functions and offers a simple method of retrieving signalling event data. It is also possible to extract the raw SSI data in hourly files to allow further data processing and analysis.

### Remote Access

**SSI<sup>ALERT</sup>™** can be connected directly to a network via its TCP/IP Ethernet port, enabling data transfer at up to 100Mbps. It can also be supplied with either a PSTN or GSM modem for remote data access.

## Specification

<b>General</b>	
Dimensions (mm)	307 x 210 x 65
Weight (kg)	4.6
<b>Power Supply</b>	
Power supply range	110v / 240v AC
Power consumption	28w
Internal UPS	60 minutes (Sufficient to continue working in the case of short power interruptions)
<b>Digital Inputs</b>	
Digital input isolation	1kV
Maximum SSI's per unit	12 interlockings
<b>Data Storage</b>	
Internal data storage	16Gb
External data storage	16Gb (Removable USB memory)
<b>Communications</b>	
Serial (high speed)	3 x USB
Modem	PSTN or GSM
Networking	10 baseT / 100 baseTX



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