



# Product Information Sheet

## Signals Simulator

### Type: SIM 501

## Signals Simulator – SIM 501

### USER INFORMATION

The Signals Simulator (the Simulator) connects in place a Lineside Signal in order to simulate the loading of a Lineside Signal to the Signal Module.

The Simulator provides:

- loads similar to that of Colour Light Signal, Position Light Junction Indicator and Position Light Signal.
- graphical indication of the aspects of the Colour Light Signal, Position Light Junction Indicator and Position Light Signal.
- indication of normal supply voltage range (88Vac to 121Vac RMS).
- control of the Urgent and Non-urgent Alarm contacts.  
The Simulator is portable, robust, easy to use and has an integral re-chargeable battery.

### Environment

The Simulator is suitable for use at the trackside during testing.

### Restrictions

The Simulator should be used only to simulate Lineside Signals with a supply of up to 125Vac RMS.

### Electrical connections

The Simulator has three plug couplers to connect to Colour Light Signal, Position Light Junction Indicator and Position Light Signal couplers. A plug coupler is also provided to allow connection of the SIM 503 External Load Box.

The Simulator also has a charger connector for a battery charger to be connected.

### Controls and Indications

The Simulator has an ON/OFF push button switch.

The Simulator has two pushbutton switches that allow selection and control of the Urgent and Non-urgent Alarm contacts.

The Simulator has a pushbutton switch that allows load control of the Position Light Junction Indicator.

The Simulator has the following indicators:

- Urgent Alarm Selection.
- Urgent Alarm ON.
- Non-urgent Alarm Selection.
- Non-urgent Alarm ON.
- Colour Light Signal Load ON.
- Junction Indicator Load ON.
- Colour Light Signal Voltage Out-of-range.
- Junction Indicator Voltage Out-of-range.
- Position Light Subsidiary Signal Voltage Out-of-range.
- Temperature Normal.
- Battery.

### Outline

The Simulator is of robust construction, having a non-metallic case, overall dimensions 310mm (h) x 330mm (w) x 120mm (d) and weighing 7kg.

The Simulator has a carrying handle.



SIM 501 – Signals Simulator



SIM 503 – Load Bank