



Part of the
Sentric Group

POINTS CONVERTER

Powering Your Manual Points

REMOTE CONTROL OF MANUAL POINTS

The Zonegreen Points Converter is a safe and reliable solution that has been designed for modern train care facilities. The Converter allows the automation and remote operation of any traditional manual point / switch or rail road crossings.

DPPS provides physical protection for staff, preventing vehicles from being able to enter a maintenance facility unless it is safe to do so.

THE ZONEGREEN CONVERTER SYSTEM COMPRISES TWO PARTS:

1. A **Points Converter device** that is attached to an existing manually-operated switch without compromising the integrity of the existing mechanism. It does not require any civil works or changes in the operating procedures to be installed. Each converter can be used as a standalone machine or routes can be set to operate multiple units which have been installed.
2. Operation of the Point Converter device is possible either through the use of a **local key switch panel**, a **radio remote handset**, or alternatively through a **computer operating system**.

A simple push button / key switch can be mounted on a post in the local vicinity to allow the operation of the points from a position of safety.

The intuitive handset allows the operator to remotely control the points system. It can be either hand portable, cab mounted or mounted within the depot, and has been fully EMC tested to be compliant with EN50121-4:2006

A centralised control system is also available via a windows PC interface that offers route planning and visualisation, as well as the remote control of the points converter device.

BENEFITS

- Enhances safety by reducing the risk of slips, trips and falls.
- Allows route programming so multiple points can be set in a single action
- Expandable routes can be re-configured and added to at any time
- Mitigates risk removes the need for strenuous manual labour to set points
- Removes the need to navigate live third rail to operate points
- Traceable. The system includes a logging system that allows the depot manager to keep a log of the points operation.
- Low cost
- Simple to operate
- Fully EMC tested to EN50121-4:2006

TECHNICAL DETAILS:

Connection Type (Number of Wires)	3
Throwing Force	> 6kN
Holding Force	> 6kN
Trailable	Trailing is not advised as best practice
Stroke Range	> 130mm An alternative cylinder to increase range is available on request
Power Supply Types	Single phase 230V, Single phase 110V
Operation Time	5 – 6 seconds
Current Consumption (Rated current)	Max 7A for single phase 230V Max 16A for single phase 110V
Resistance in Supply Cables	> 54 Ω
Weight	Approx. 80kg
IP	IP65
Dimensions	1000 x 650 x 320 (WxHxD)
Hydraulic Oil	ISO 32 grade hydraulic Mineral oil
Radio Telemetry Range	> 3000m with clear line of sight

