



Main features:

- Provides a complete site solution for up to two PantoInspect Scanner units
- Simple power and data interface to wayside systems, speeding up site design and install
- Interface for four Transcore SmartPass 4 RFID tag reader
- Interface for four Frauscher RSR123 wheel detectors and VEB analysis system
- Optional 3G web based system health monitoring system
- High level of surge and lightning protection for system longevity
- Uninterruptable power supply (UPS) for protection against poor quality power

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System Overview

The PCMS control cabinet provides a drop in site solution for up to two PantoInspect scanners. All that is required is a 240VAC supply and a network connection to the PantoInspect server. The cabinet provides power and data distribution for up to:

- Four Transcore SmartPass4 RFID tag readers
- Four RSR123 Frauscher Wheel Detectors
- Two PantoScanners
- One Winch Control box with 10A GPO

The temperature of the cabinet is controlled by a Dantherm 600 air conditioner to protect the components from the harsh temperatures experienced within the rail corridor.

The UPS provides power quality filtering for the sensitive equipment in the control cabinet and the scanner unit(s) themselves, in the event of a site power failure the UPS allows the system to shutdown in a graceful manner without causing any damage to hardware or corrupting software.

An optional web server monitoring system provides independent remote access to the status of the system. It monitors the 24VDC power supplies, temperature, door status, site current draw and the main and UPS busses. The web server obtains an internet connection through a 3G router, this allows access to the status webpage via the internet and email alerts for critical situations to be sent

Technical Data

Description	Unit	Value
Operating Voltage	V _{ac}	Nominal 240VAC 50Hz
Temperature	°C	-10° 55°c ambient*
Humidity	-	0-100% non-condensing
Variations of Voltage Supply	-	±5%
Degree of Protection	-	IP 54
Dimensions (L x W x H)	mm	800W x 1200H x 400D
Weight	Kg	140
Network Connection	-	10/100/1000 Ethernet (fibre option)

Extreme Temperature Option

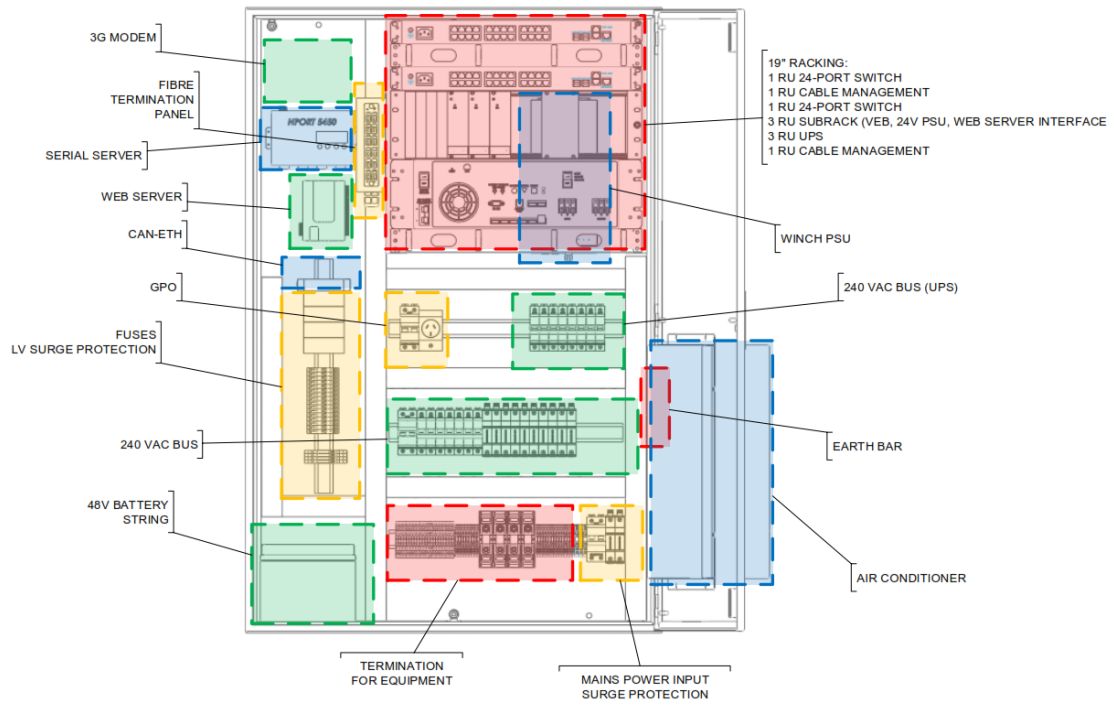
In harsh environments an extreme temperature option can be included which provides a complete climate control solution. The ambient temperature range can be increased to -250c to 700c. This allows the control cabinet to be installed in even the most demand locations.

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Control Cabinet Layout



Network Connection Requirements

A network connection between the PantoInspect server and the control cabinet is required; this allows the scanner(s) to communicate with the server as well as all on-site equipment. A 10/100/1000 base-T Ethernet port is available for use or an optional fibre optic solution can be installed. The fibre optic solution consists of a fibre patch unit and a 1RU Ethernet switch with a fibre optic transceiver. This allows the cabinet to be interfaced to existing network infrastructure with minimal disruption.

Auxiliary Components Required

Components required for operation but not supplied are:

- Image House PantoScanner (one or two)
- Transcore SmartPass4 RFID tag readers (two or four)
- Frauscher RSR123 wheel detector and VEB analysis card (two or four)
- Frauscher VEB analysis motherboard and CAN-ETH converter (one)
- Interconnecting site cabling

All cabling to and from the control cabinet passes through IP 65 cable glands to prevent the ingress of water or dust, it is also recommended that all external cabling be placed inside of appropriate conduit to protect against wear.

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