

PTC-1[®]

Delivering value for money and improved performance.

Low Voltage (LV) and Extra Low Voltage (ELV) options available



This latest design in traffic controllers offers fully integrated modern communication interfaces together with an operating system that enables flexibility for new applications. PTC-1 provides a low maintenance and cost effective solution through reliable and robust operation.

Flexibility

PTC-1 offers a high level of integration and flexibility. Extensive connectivity options make it the ideal choice for the modern networked environment. Multiple configurations and applications can be stored, selected and activated.

Efficient and Safe

In an age where the environment is critical to us all, all means of saving energy need to be reviewed. The PTC-1 controller has the ability to drive and monitor low power LED signals directly, fully utilising the energy saving advantages of the latest LED technology. 230V and 48V options are available and dual voltage operation is also achievable.

To keep install costs low, the controller can be mounted onto an existing Peek TRX controller root.

Safety is at the core of the PTC-1 technology, exceeding the requirements of the UK and European standards.

Communication

Peek appreciates the need for ease of use and the ability to quickly obtain information from any piece of roadside equipment. Designed for the next generation of traffic control equipment, the controller has IP (Ethernet) and USB interfaces.

Key Features

- High accuracy integrated speed measurement
- Multiple user interfaces – USB, IP (Ethernet) and RS232 supported
- Support software includes user friendly Windows™ based configuration and simulator packages
- Integral quad Outstation Transmission Unit (OTU) for connection to existing UTC networks
- State-of-the-art, surface mount electronic circuits, resulting in high reliability and low maintenance
- Comprehensive fault log facilities
- Traffic control programs stored in flash-EPROM
- Central Processing Unit (CPU) contains two autonomous processors; a Power PC for control and a Coldfire for supervision
- Four signal groups (twelve lamp switches) integrated into one lamp control and monitoring unit, including voltage and current monitoring for each lamp switch
- Integral UTMC communications available

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Applications and Operational Modes

- UTC Fixed time, vehicle actuated, and CLF modes
- Can be operated in manual or part time modes
- Supports integral OTUs using 0361 protocol
- UTMC compatible operation (UG405)
- Bus priority
- Pelican, Toucan, and Puffin capabilities

Software Configuration and Testing

Available with the controller is a suite of Windows™ application tools providing facilities for Configuration, Simulation and Communication. Using these tools the Traffic Engineer can configure a junction graphically and then simulate its operation including the detectors with real traffic data.

Once the engineer is satisfied with the configuration it can be downloaded to the controller.

Access to the controller to modify site data or for maintenance purposes can either be via a terminal emulator (e.g HyperTerminal) using the familiar TRX handset commands or through a web browser (e.g. Internet Explorer) which then provides a graphical interface for comprehensive display and changing of data.



Real-time updating site mimics can also be displayed.

Environmental Credentials

Elecon Codes	Watts	Annual kW: Hr	CO2 kg pa
79 06 058 000 100	58	508	273

Specifications

Processors:	Power PC for applications and Coldfire for independent safety monitoring
User Interface:	1 x Ethernet port 2 x USB ports 1 x RS232 engineer's terminal interface 1 x RS232 modem interface
Configuration:	0... 48 phases (only 36 physical phases supported) 0... 64 loop detector circuits 0... 48 digital inputs 0... 48 digital outputs
Capacity:	48 Phases (only 36 physical phases supported) 8 Stage Streams 8 Hurry calls 32 CLF Plans 64 Groups per plan 255 Timetables
Mains Voltage:	230V -13%... +10% 50/60Hz -4%... +4%
Energy Reserve:	>= 50ms
Lamp Outputs:	48V / 230 AC 4Amp per output 7A total (per LCM) 32A total (36 phases)
Op. Temperature:	-15°C to +60°C
Cabinet (standard):	IP Rating 55 1185H x 740W x 432D mm
Manual Panel:	Pushbuttons with LED indicators 8 programmable buttons
Other Options:	Audible/Tactile drivers Secret sign drivers Enhanced lightning protection
Approvals:	Functionality TR2500 / TR2523 EMC EN50293 Safety / environment HD638 Functional safety EN12675

RoHS and WEEE Compliant



Peek Traffic Limited, Hazelwood House, Lime Tree Way
Chineham Business Park, Basingstoke, Hampshire, RG24 8WZ

Tel: +44 (0) 1256 891800 Fax: +44 (0) 1256 891870
Email: sales@peek.co.uk

Peek is a leading supplier of intelligent transport solutions. For more than 30 years, the firm has been providing advanced traffic control products and systems, management and maintenance services for both the urban and highways markets. Peek's established and proven portfolio includes traffic management systems incorporating SCOOT, highway congestion management and enforcement systems, vehicle detection systems, exterior lighting, as well as supervisory and communications systems. Peek is ISO 9001:2008 and ISO 14001:2004 certified.

With headquarters in Basingstoke, Hampshire, Peek employs more than 500 staff throughout the UK. Peek is part of the Traffic and Infra division of Imtech NV, a global technology services provider based in the Netherlands.

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