

PTC-1[®] Lite

Optimised for pedestrian and small junction installations (up to 8 phase).

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



Designed to meet the market requirement for a compact controller that offers both pedestrian and small junction capabilities, whilst maintaining many of the features of the PTC-1. The PTC-1 Lite meets the requirements of TR2500/TR2523 and all relevant European directives.

Compact and Efficient

Although compact, the PTC-1 Lite cabinet allows a large range of equipment to be fitted. In addition to the basic controller, input and output can be expanded to enable interfacing to a wide range of detection or outstation devices. With an emphasis on reducing the visual impact of equipment on street, the cabinet has been designed for maximum flexibility by enabling it to be located in corners and recesses requiring access from the front only.

In order to benefit from the energy savings and deliver roadside efficiency, PTC-1 Lite continues the PTC-1 pedigree of being able to drive and monitor low power LED signals directly.

Minimised Complexity

To minimise spares holding this controller uses many of the same hardware modules as PTC-1. It also uses exactly the same code, programming and simulation tools. However, to minimise complexity, some new modules have been created that simplify the hardware build and configuration of the controller including a chassis mounted, reduced capacity, input & output card.

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

- Reduced cabinet size with all cabinet access provided from the front
- Shares many common modules with the PTC-1 controller
- Uses the proven PTC-1 operating system and firmware
- Compact and integrated design offering reduced complexity
- Single point of disconnect to enable in-situ site isolation testing
- High accuracy integrated speed measurement
- Safety functions are continuously monitored by a separate safety processor
- Multiple user interfaces – USB, IP (Ethernet), and RS232
- Comprehensive fault log facilities
- Traffic control programs stored in flash-EEPROM
- Integral UTMC communications available

PTC-1[®] Lite

Optimised for pedestrian and small junction installations (up to 8 phase).

Applications and Operational Modes

- All TR2500 specified modes supported including:
 - Junction (up to 8 phases)
 - Pelican, Puffin and Toucan
 - Part time signals
- Supports up to 4 integral OTUs using 0361 protocol
- UTMIC compatible operation (UG405)

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 and then graphically simulate its operation.

Once the engineer is satisfied with the configuration it can be downloaded to the controller. The Communicator tool can additionally be used to automatically complete full site specific safety testing including conflict and lamp monitoring prior to installation.

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 Peek controller handset commands or through a web browser (e.g. Internet Explorer) which then provides a graphical interface for comprehensive display and changing of data.



Environmental Credentials

Elxon 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 0... 64 loop detector circuits 0... 48 digital inputs 0... 40 digital outputs
Capacity:	48 Phases (only 8 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
Op. Temperature:	-15°C to +60°C
Cabinet (standard):	IP Rating 55 985H x 701W x 368D 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.

PTC-1[®] is a registered trademark of Peek Traffic Limited.

© March 2011 v.2 Peek. All rights reserved.

www.peek.co.uk