

MATC PEDESTRIAN CONTROLLER

Traffic Safety For Pedestrian Road Users

PPK Technology manufactures the pedestrian traffic controller consisting of a four signal group traffic system. The pedestrian controller receives push button commands from the pedestrian and provides sound alerts to inform the pedestrian of the traffic signal status. The system can also be integrated with flashing amber roadwarning lights and is able to control street lighting infrastructures. PPK has also implemented pedestrian systems for people with disabilities.

• Functional Features

The pedestrian controller is incorporated with lamp failure and conflict monitoring and control system. The system can trigger amber flashing and shutdown upon lamp missing or fuse blown as a safety protection. Upon power failure, if a back up power is required, an external uninterruptable power supply can be used.

- * Vehicle Green
- * Vehicle Green Flashing + Pedestrian Red Flashing
- * Vehicle Amber
- * Vehicle Red
- * Pedestrian Green
- * Pedestrian Amber
- * Pedestrian Red

To avoid frequent stops, the pedestrian controller has a time-out feature and can be linked to a nearby traffic controller for synchronisation (greenwave linking). The system can also be linked to the MITS control center for remote monitoring and parameter control. The controller provides facilities for LED indicator on the push button panel. PPK also has an optional sensor to detect the presence of pedestrians (using laser or wireless/infrared detection) for automatic detection of pedestrian presence and crossing status.

• Key Features:

- * Push button activated control
- * Compatible with pedestrian aspects
 - Red man and green man (still)
 - Animated red man and green man
 - Countdown and animated red man and green man
 - Siren incorporated aspects
- * Compatible with push button with LED display
- * Available with non-push button activated system such as laser or wireless/infrared detection of pedestrian presence and crossing status
- * Can be linked to MITS system
- * Can be synchronised with nearby junctions for greenwave linking
- * Incorporates features for people with disabilities



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Operational Specifications:

Item	Specifications
No. of Signal Groups	4 signal group
Lamp monitoring	Available
No. of Pedestrian Push Button Inputs	4
No. of traffic phases per timing plan	2 (max)
Greenwave Linking	Can link to nearby junction controller using RF module
Programming / Configuration	Portable programming unit (PPU) i.e. laptop or android/ios device
Local intelligence	Equipped with fixed time, flashing yellow and self checking capabilities
Control center compatibility	Compatible with MATC Intelligent Traffic System (MITS) software *
Digital countdown compatibility	Optional – can provide timing data for vehicles (wait time) and pedestrians (crossing time)
No. of digital countdowns	4 (max) – 2 pedestrian and 2 vehicle
Countdown communication to controller	Supports both wireless or wired
Logging Data and Events	Logs and stores data for any event occurring affecting controller functions
Database back up / Event Log	Controller log data can be backed up to PPU from flash memory

Mechanical and Electrical Specifications:

Item	Specifications
Cabinet format	Front door
Dimensions in cm	90.7 x 50.8 x 28.9
Cabinet material	1.5 mm thick epoxy coated oven baked (grey) stainless steel (ss 304) or galvanised iron (GI)
Access	Push key handle and key
Ventilation	Via roof and 4 meshed air vents on side
Weight	38 Kg
Main Cards Enclosure	Swingable enclosure with hinges for 4 signal group ILC card
Incoming voltage and frequency	230V, Vac \pm 10% at 50Hz
Power Consumption	55 Watt (Halogen) 45.8 Watt (LED)
UPS Compatibility	Requires separate cabinet
Operating Temperature	-10°C to 75°C
Humidity Tolerance	85% Non-condensing
Degree of Protection	IP33 compliant
Electromagnetic Compatibility Standard	BS EN 50293 : 2012 compliant
Mechanical Standard	IEC 255-21-1; IEC 255-21-2 compliant
Environmental Standard	IEC 60068-2-2; IEC 60068-2-3; IEC 60068-2-30 compliant

Controller System Specifications:

Item	Specifications
Microprocessor	Intelligent Lamp Control Card (ILC) with 8 bit microprocessor
Logging capacity	Fault / event storage capacity: average 10 events / day Data storage capacity: 7 years (max)
PPU connection interface	RS-232
Lamp status monitoring	Fuse blown detection, green conflict detection, double lamp detection, lamp failure detection
Current monitoring system	Conducts power consumption monitoring
Lamp conflict or lamp missing	Configurable to trigger amber or traffic system shutdown
LED and halogen based aspects compatibility (brands and models)	Must be tested with ILC card to ensure lamp conflict and missing detection system is functional. Contact PPK for details.
Pedestrian sensor	Optional to include wireless/infrared or laser detector for pedestrian presence and crossing status
Communication methods from controller to control centre	GPRS/EDGE, 3G/4G, Wifi, Leased line, Fiber optic
Communication and SMS module	Used for connection to MITS and fault alert SMS to mobile device and MIMIC panel systems

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