

# MATC TRAFFIC LIGHT CONTROLLER



## PRODUCT OVERVIEW

- MATC series traffic light controller is manufactured by PPK Technology through our years of research and development in the traffic system area.
- MATC is flexible, and may be programmed and to control any type of intersection including normal intersections, intersections with pedestrian crossing, roundabout, and linked intersections.
- MATC is a master linked and greenwave linked junction that intelligent traffic controller reduces the problems for traffic engineers in designing and implementation of a traffic lights intersection.
- Models Available:-

Model Name	Specification
MATC 2000 (9.1)	8/16 group full VA capability
MATC 2000 (9.2)	8/16 group Adaptive/ Dash Countdown
MATC 2000 (9.3)	8/16 group linked

MODEL: MATC 2000 (9.1),(9.2),(9.3)

Product Datasheet  
PPK Technology Sdn Bhd

# MATC TRAFFIC LIGHT CONTROLLER

## TECHNICAL SPECIFICATION

ITEM	SPECIFICATION
VOLTAGE CONSUMPTION	180 VAC to 260 VAC, 60 Hz $\pm$ 10% ; Single Phase
POWER CONSUMPTION	Depends on aspect load.
POWER FACTOR	>0.9
SPARK SUPPRESSION	RC Network; MO4
CABINET HOUSING	2.5 mm Stainless Steel cabinet, GI Plate, Epoxy Powder Coated, Electrogalvani- JED Plate
MOUNTING	Concrete Plinth
BACK UP BATTERY	Up to 5 years Memory Retention
LIGHTING TRANSIENT SUPPRESSION	Available in SOKA Shunt SPD (All Mode)
OPERATING TEMPERATURE	10°C - 85°C
OPERATING HUMIDITY	35% - 95% (non condensing)
IP RATING	55
EARTH LEAKAGE CIRCUIT BREAKER CURRENT SENSITIVITY	30MA for 30A 100MA for 60A
STATUS INDICATOR	- Mode of operation - Input and Output states of operation - Fault Indicator
EARTHING	Exothermic less than 1 ohm earth resistance
PUSH BUTTON	Available inputs
WORKFLOW / VARIABLES / OUTPUTS	<ul style="list-style-type: none"><li>• Vehicle Red</li><li>• Vehicle Amber</li><li>• Vehicle Green</li><li>• Amber Flashing</li><li>• 2 digit / 3 digit VA Countdown VA/ Learning Countdown</li><li>• Green Flashing</li><li>• All Red</li><li>• Cut Off</li></ul>
TIMING SETTING	0.1 sec to 999.9 sec
TIMING RESOLUTION	0.1 sec

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## TECHNICAL SPECIFICATION

ITEM	SPECIFICATION
LAMP CONFLICT DETECTION	Available for MATC certified compatible aspects
CPU	Microprocessor Based
COMMUNICATION	RS-232 (Serial), PSTN Modem, GSM Modem, Broadband Modem Wi-Fi
CURRENT MONITORING / LAMP FAILURE DETECTION	Enable for MATC certified compatible aspects
DYNAMIC RESPONSE ADAPTIVE SYSTEM (DRAS)	<ul style="list-style-type: none"><li>- 10 phases of operations</li><li>- Up to 32 Vehicle Signal Groups</li><li>- Up to 15 Pedestrian Signal Groups</li><li>- 24 Vehicle Detector Input</li><li>- 16 x 7 Operational Plans</li><li>- Up to 32 number of Controller In Green Wave Operation</li></ul>
INTERSECTION CONTROL STRATEGY	<ul style="list-style-type: none"><li>- First Phase Priority</li><li>- Maximum Throughput</li><li>- Minimum Delay</li><li>- Anti De Facto Red</li></ul>
REMOTE CONFIGURATION CAPABILITY	Available
STORAGE CAPACITY	36 hours of traffic data
MULTIPLAN MODE	<ul style="list-style-type: none"><li>- 16 X 7 Operational plans</li><li>- Automatic change over from Vehicle Actuated Mode to Multiplan on individual loop fault basis</li></ul>
SKIP PHASE ON DEMAND FEATURES	Available
GREEN WAVE LINKING	Available in wireless, cable linking or offset linking
UPS COMPARTMENT	Internal.
INTERFACE	Using MATC Set 2006 installed on laptop / PC
NO. OF SSR CARDS	16 ( FOR 32 GROUP ) 12 ( FOR 24 GROUP ) 8 ( FOR 16 GROUP ) 4 ( FOR 8 GROUP )
POWER METER PANEL	Inside Cabinet

### MANUFACTURED BY:

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PPK Technology product are available nationwide in Malaysia or overseas through selected agents. Product can be supplied, installed, configured and tested by PPK Technology or an approved contractor. For a complete list of products and services available and technical support staff, contact our office or visit our website.

### DEALER:

MODEL: MATC 2000 (9.1),(9.2),(9.3)

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