EFKON

Adaptive Traffic Control Systems

(ATCS)

Detection of real-time traffic conditions is a critical input for efficient operations. The value of reduced economic productivity due to time lost in traffic congestions, wastage of fuel, and the effect of pollution is staggering. As a result, the demand for better traffic management solutions is more significant than ever before. Adaptive Traffic Control System (ATCS) is a solution that automatically adapts the timings of traffic lights based on real-time traffic conditions to optimize the flow of traffic.

Overview

EFKON's Adaptive Traffic Control System (ATCS) enables traffic signals to work in adaptive (fully synchronized), vehicle actuated (local optimization), and fixed timing modes to maximize vehicular throughput and reduce congestion.
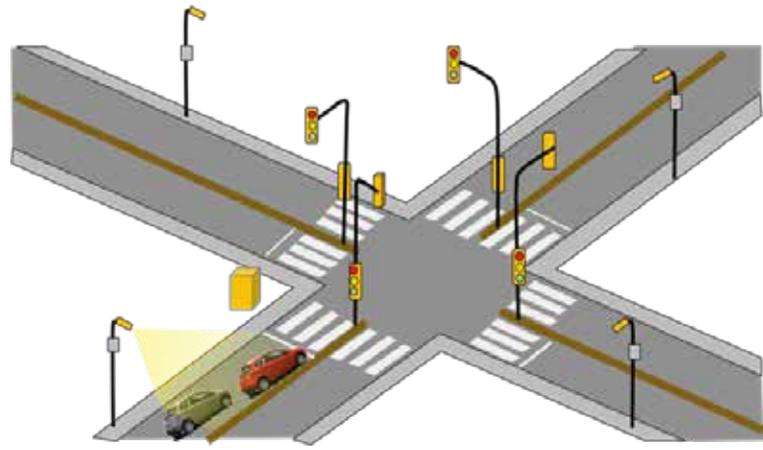
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How ATCS works?

ATCS makes use of cameras and sensors for monitoring the traffic. These sensors collect data, which are evaluated to improve signal timings at a particular junction. The sensing network can adapt to the changing traffic density patterns and provide necessary signals to the traffic controller or the Command Center on a real-time basis. It allows signals to interact with each other and make adjustments to the signal timings to keep traffic flow congestion free.

Key Features

Operating Modes	Elements of ATCS	Operating Parameters	System USP
Fixed	Master Controller	32 cycle plans (6 default(non changeable) and 26 configurable)	Hurry calls and forced calls – renewable after time-out
Vehicle Actuated - Full actuated - Semi actuated	Slave Controllers	Days Plan – 20 Week Plan - 04	Force flashed, Auto/Manual, Junction Off
ATCS	Traffic Lamps (Red, Amber, Green Full, Green Arrow (Straight, Left and Full) Green U Turn, Pedestrian Red, Pedestrian Green, Count-down Timer, Pedestrian Timer, etc.)	Season Plan - 04	GPS based time synchronization
Combination of all different modes	Vehicle detectors	Special Days Plan - 20	

Advantage of using EFKON's ATCS system

Improve travel time reliability

Reduce congestion through smooth traffic flow

Increase efficacy of traffic signal timings

Real-time traffic information management

Reduced number of stops in corridor resulting in saving fuel cost

Why EFKON?

18 years of domain expertise and seasoned cross-functional teams

Strong presence in the growth markets (highways and smart cities)

End-to-end traffic management system products

Track record of award-winning successful project executions

Our key clients include

Aligarh Smart City Limited

Tumakuru Smart City Limited

Varanasi Smart City Limited

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