

BACKED BY OVER 20 YEARS EXPERIENCE IN

TUNNEL LIGHTING CONTROL SYSTEMS

PL  Transportation
Control Systems



PLC Transportation has been a fundamental part of PLC-Multipoint for over 22 years. Our scope of work includes lighting inside tunnels and on bridges. PLC-Transportation technology is based on programmable logic controllers, which are the platforms we use to integrate unified Human Machine Interfaces and Supervisory Control and Data Acquisition systems. Our determination to find the best solution to custom lighting and control applications, result in the performance, maintainability, and economical operation you require with years of dependable service.



Our reputation in the transportation industry is built upon the extensive number of projects we have completed. Many of our customers have returned to PLC Transportation to upgrade and expand their existing transportation lighting control systems.

Foundation in technologies

Hardware

PLC Transportation control hardware has been designed and tested through our research and development team. Our engineering process includes assessment of control requirements for physical environment, power, and lighting operation. Durability and safety are the pillars of PLC Transportation designs. All custom control systems are designed for fifteen years of life. Components are selected with form, fit and function replacement for maintainability.

PLC Transportation *Control Systems*

The reliability of our systems is proven by the number of D.O.T. agencies using them across the country.

Software

PLC Transportation has evolved our tunnel lighting application software over the past 20 years. The control algorithms provide optimal lighting control whether using branch circuit or feeder contactors, switchable circuit breakers, or dimming fixtures. The system is scalable, and has interface capabilities with many communication protocols.

Operator Interface

Our expertise in local operator interface and HMI workstations provide clear information displays required to configure, monitor and control the lighting control systems. Graphic touchscreen and durable text displays are both used.

SCADA

SCADA systems collect information from lighting control systems, and other control infrastructure. Our SCADA systems are capable of seat or server based licenses, multiple communication drivers for data collection, redundant storage, historical trending, overview and detail graphics, as well as alarm handling and reporting.

Communication

Copper Signal, Fiber Optic and Wireless

PLC Transportation has the flexibility to use a variety of media to communicate with our system devices and architectures. We support legacy RS232, RS485, communication in addition to copper, fiber optic and wireless Ethernet.

SHORT TUNNEL · SHORT TUNNEL RAMP · UNIDIRECTIONAL SHORT TUNNEL · BIDIRECTIONAL SHORT TUNNEL



Engineered Systems and Services

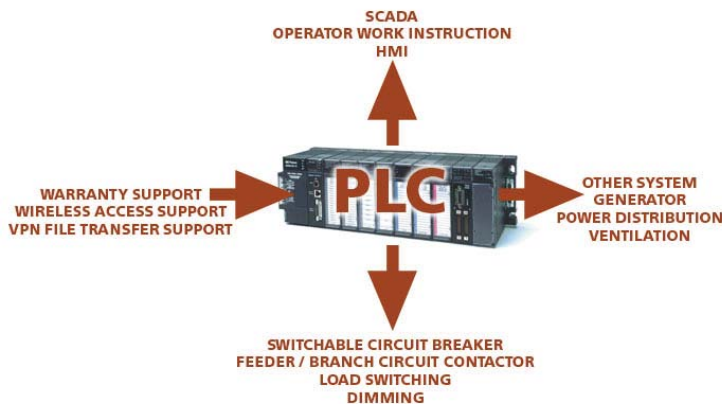
Accreditation

UL508A, CAN/CSA C22.2 14-M91

PLC Transportation equipment is certified to comply with the standards of US and Canadian Industrial Control Equipment. Our workmanship and material quality exceed the requirements of these stringent standards.

ISO 9001:2008

PLC Transportation is certified to ISO 9001:2008 standards for quality planning, engineering, manufacturing and field testing to ensure the quality of our systems.



Security

PLC Transportation uses the latest in industrial infrastructure security. Our network devices include managed switches to pass only authorized traffic. We have multiple tiers of users, each with access constraints. Information is also limited with other systems through specific data exchanges. We support our remote systems with secure cloud based communications and fixed base cell phones.

Integration

Power control, Pump control, Ventilation, Intrusion and Fire response.

PLC Transportation integrates multiple infrastructure systems together to perform in normal operation, emergency, and power interruption conditions.

Project Management

Accuracy, Timeliness and Performance

PLC Transportations entire project process is methodical and thorough. We are in contact with clients and customers at critical points in the process to ensure timely execution of the project. Our project submittal package include sequence of operation, operator interfaces, bills of material, drawings and data sheets and test procedures. Our final documentation also includes as-built documents and updated user and equipment manuals.

Services

Technical Support, Training and Commissioning

PLC Transportation provides startup services to ensure equipment is properly installed, commissioning to verify the system performance to requirements, and training for personnel to operate and maintain the system. For most systems, we even provide an annotated DVD of the training for future reference. Our knowledgeable staff is always ready to support you if there are technical questions. Checkout our website at plctransportation.com



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PRODUCT FAMILIES:

T3X-1

T41-1

T51-1, T51-3, T51-4

T54-1, T54-2, T54-3

T57-4, T57-5, T57-6

SCADA / HMI

Components used in controls are selected for durability and market life. PLC Transportation support products for 15 years, with form, fit and functional replacement.



TECHNOLOGIES → COMMUNICATION



SERVICES  **INTEGRATION**



PROJECT MANAGEMENT ← ACCREDITATION

