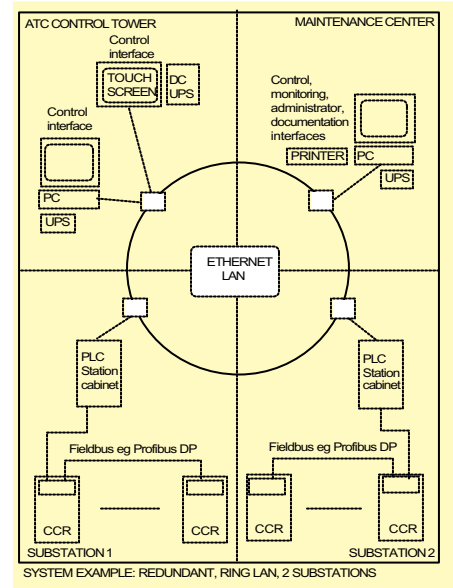


Serial remote control system IDM 7600



Application

Airfield lighting remote control and monitoring system for larger airports.

General features

PLC based industrial automation system with high degree of reliability and flexibility.

Easy and quick extension and maintenance features due to a completely modular design.

System design principles

Ultimate reliability and safety is achieved by using modern PLCs (programmable logical controllers) as main computers and standalone touchscreen units as control stations.

PLCs and standalone touchscreens are superior to PCs in terms of reliability because they are designed for industrial environment, have no fan nor hard disk, have dedicated reliable operating systems, modular plug-in components and memory cards, guaranteed response times and spare part service for future years.

Comprehensive failsafe features on control and device-level from automatic control authority transfer of control station down to failsafe features built in CCRs .

Scalable modular SW allows the system to grow along with the needs of the airport. Extensions/modifications made on configuration basis which ensures correctness and minimum system downtime.

UPS back up for the whole system.

User interfaces: hardware

Touchscreen panels

Stand-alone reliable touchscreen units with dedicated operating systems, plug-in application memory and communication cards and UPS back-up. No hard disks nor fans. Control as well as limited monitoring and configuration functional interfaces can be included.

PC

Standard or industrial PCs with W2k (or later) operating system, Ethernet connection and touchscreen or mouse control and UPS back-up. All functional interfaces can be included.

Keyboard panels

Limited control interface with reliable conventional push-button panels with IP 67 illuminated buttons, back lighting, dimmers, lamp test, audiovisual alarm and optional mimic diagram.

Functional interfaces

All interfaces are intuitive, easy to use, designed for touch operations and multilingual.

Control interface

Possibility to form working groups by sharing control authorities between working stations.

Direct and automated controls, eg. user configurable memory presets, taxiway routing and auto-stopbar function.

Control buttons with blinking fault indications.

Mimic diagram with blinking fault indications gives a clear picture of the overall system status.

Monitoring interface

Main page with maintenance mimic and fault text display.

Alarm viewer with printing and acknowledgement of faults.

Group monitoring page for group lamp fault monitoring and alarm level setting.

Station monitoring pages with lay-out of the station equipment to give a clear picture of the overall station status.

Detailed monitoring pages for CCR and other devices.

Circuit isolation level graphical trending.

Event logging and history browser with powerful query tool.

Comprehensive reporting functions.

Efficient monitoring functions, eg. red fault path, faulty CCR scan etc.

Documentation interface (option)

Documentation interface provides product data for the whole lighting system down to component level, eg. manuals, part lists, etc. via a browser interface easy to use.

Administrator interface (option)

Runtime system reconfiguration, eg. adding new CCRs or controls provides correct and quick system modification with minimum downtime appreciated on busy airports.

Information interface (option)

Isolated http server with homepages (which can be viewed with standard web browsers) provides information to other airport organizations like management, security etc.

Communication

Standard/redundant Ethernet fiber optic ring/star LAN with industrial standard components and UPS back-up for inter-station communication.

Major fieldbuses, eg. Profibus DP for device-level communication.

Device connections

IDM 8000 series equipment connected with built-in communication cards.

Other equipment connected with modular I/O units (RIO).

Isolated relay outputs for auxiliary I/O connections.

Interfacing with other systems

Possibility to connect with other systems, eg. Meteo, ILS, etc. to collect information for information interfaces.

Options

Remote commissioning and trouble shooting service via telephone lines.

Advantages

- Easy and quick installation
- Reliable operation
- Easy to use, intuitive and efficient multilingual user interfaces
- Comprehensive extension and interfacing possibilities

Accessories

Fibre optic and copper telecommunication cables with factory installed connectors.

Information needed for providing an offer

- General lay-out of the airport with control and electrical station locations.
- Total no and types of CCRs.
- Required special features or a specification.