LIOB-585 I/O Controller Creates a Flexible IoT BA Platform

With the rapid transformation of systems, IP access and IoT integration have become a requisite for achieving smart buildings today. Most users need many different models of controller hardware to cover their needs for integrating the management and control of unitary and terminal units. A minimum of two controller devices is necessary, with many vendors providing from six to twelve controllers to satisfy market needs, which is a costly investment for users.

Innovative in the field of building automation, LOYTEC has demonstrated strength in maximizing synergies from the integration of different systems and creating potential energy savings and operation efficiency. The new LIOB-585 I/O Controller is a hybrid device minimizing the need for the system structure's middle-level and supervisor level. The LIOB-585 has the distinct advantage of being applicable to all unitary and terminal needs.

The multi-lingual LIOB-585 makes it easy to bridge from one protocol to another and migrate systems to more modern applications, or allow movement from more proprietary systems to open based systems, or even industrial based systems. The LIOB-585 can bridge the gap between archaic fieldbus systems and IP. The IP system offers redundant communication via wired or Wi-Fi mesh application while there are various communication languages such as BACnet, LonWorks, Modbus, SNMP, and OPC or highly secured and encrypted OPC UA. The customer needs only to stock a single device to fulfill the requirements of all equipment integration. With the built-in USB port, the LIOB-585 can accept EnOcean wireless or Wi-Fi, including Wi-Fi mesh if users cannot implement wired communication, which provides the flexibility for deployment.

In addition to the onboard web server, customized HTML5 graphic project(s) can be stored on the LIOB-585 to visualize a single LIOB-585 or an entire network of controllers. Documentation can be stored on the device so a user can view wiring diagrams, sequence of operation(s), and even submittals for all peripherals included with the unit. For HVAC applications, the LIOB-585 can be configured from the graphical pages of the device or fully programmable without dedicated software.

The LIOB-585 goes beyond simple HVAC application, allowing for control of lighting and even acceptance of types of access control hardware for custom applications. With the IoT interface, connection to enterprise systems for scheduling, energy use and management, weather services or other IoT devices such as projectors and audio systems is possible without the need of mid-level and supervisory devices for IP connectivity

For the office environment, it is possible to have dedicated visualization and control of the room and other graphics for use by maintenance and service personnel. In a conference room, the lighting, HVAC, access and other functionality is incorporated. On the wall, an optional L-VIS Touch Panel or L-STAT Network Thermostat provides a modern, clean installation. This uniform approach is in each room, overcoming the standard unsightly installations of many different style sensors and switches by different contractors.

Offering more advanced features of analysis, data gathering and diagnostics, the compact LIOB-585 has the capability to assist users uncover and analyze valuable information from the program's capacity of up to 4 million trend entries. Historical filters, for example, allow users to run customized daily, weekly or monthly metering reports instead of having an analytics package to process large amounts of data. Analytics packages can make queries directly into running devices with very large data repositories.

For its outstanding continuous control functionality, the LIOB-585 was awarded the 2018 ControlTrends Award--Building Automation Plant/Equipment Controller of the Year. Please click the LOYTEC LIOB-585 product page to find out more details about this product.

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