



Smart Building Automation with DGW-521

ICP DAS USA's DGW-521 is a communication gateway used in architectural lighting, building automation, and smart home applications.

This device enables communication between Modbus RTU / DCON and DALI (Digital Addressable Lighting Interface) protocols and allows a Host PC, PAC, or TouchPAD to access DALI devices by providing three interfaces that enable conversion from RS-232/RS-485/USB to DALI.

DALI is a protocol that allows for a relatively sophisticated network of light fixtures and controllers. It provides the ability to control multiple light fixtures from one controller, and lets LED drivers feed data back to the network.

Complex processes like data logging and power efficiency monitoring require an interface with more complex PC controllers, ones that don't usually speak DALI. Furthermore, in home and building automation systems HVAC, lighting, and other networks may all be controlled from one location, making communication gateways necessary.

The DGW-521 comes with three communication ports: 1 USB Type B, 1 UART RS-232/485, and 1 2 pin DALI terminal block. The ports allow for flexible integration of the lighting network with multiple controllers and displays, e.g. touchpads, automation controllers, and industrial monitors.

DGW-521 allows the user to address all DALI devices on the network from a PC controller. This includes lamps, dimmers, DALI to DMX controllers, DALI to Somfy controllers, etc. Without the gateway it would be impossible to control these systems and log data from a central location. DALI networks are limited by their range, so without an interface with other forms of communication, lighting networks would have to be controlled on a floor by floor basis.





Cage/NCage Code: 3FNFO

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Making Data Acquisition Easy

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The DGW-521 makes it possible to integrate the disparate, both in terms of protocol and physical distance, networks that make up a building automation system. These gateways are like the nerve clusters that allow different parts of the body to work together. With them, building automation can operate smoothly on a macro level, allowing large buildings and campuses more efficiency and greater control.

Want to learn more? Visit our website www.icpdas-usa.com or give us a call at 1-310-517-9888. You can also reach us through email at sales@icpdas-usa.com. We are available from 8:00 a.m. to 5:00 p.m. PST.