

WRS-232 - RS-232 Device Integration

Overview

Integration of 3rdparty devices to Douglas Lighting Controls centralized lighting control systems via RS-232 commands is now available. Customers can now take advantage of the flexibility of adding and controlling external devices such as A/V, Shade control systems, and theatrical lighting with the lighting control system. Devices can be added to the lighting control system at any time.

Because the LCU is a computer, integration programming is configured on the LCU by Douglas Lighting Controls technicians to align the 3rdparty commands with the Lighting Control Unit (LCU) capabilities. Additional hardware required is a connection from the 3rdparty device to the LCU's USB port is via an RS-232 adapter cable (provided).

Typical Applications: The Douglas Lighting Controls LCU can receive and transmit industry standard RS-232 signals. A built-in protocol allows automatic response to message requests from 3rdparty peripheral devices. Other messages can command scene recall or load operations.

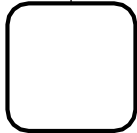
The system can communicate at 9600, 19200, 38400, 57600 or 115200 baud.

| PART NUMBER | DESCRIPTION |
|----------------|---|
| WRS-232 | RS-232 adapter cable (requires configuration by Universal Douglas to 3rdparty device) |
| WRS-232-CONFIG | Configuration to 3rdpartydevice |

Universal Douglas Relay Panel
Dialog Centralized LCU with USB port



USB/RS-232 Adapter
(Provided by Universal Douglas)



3rd party peripheral device
with RS-232 port
(by others)

Required Information During System Design

- Brand and Model of 3rdparty device
- Control parameters

Incoming Query Commands

| COMMAND | REQUEST | REPLY |
|------------------------------------|-----------------------|-------------------------------|
| Relay COMMAND | LOAD <command> [CR] | R: LOAD <command> [CR] |
| Relay STATUS | GETLOAD [CR] | R: GETLOAD <reply> [CR] |
| Dimmer COMMAND | DIM <command> [CR] | R: DIM <command> [CR] |
| Relay STATUS | GETDIM [CR] | R: GETDIM <reply> [CR] |
| Group COMMAND | GROUP <command> [CR] | R: GROUP <command> [CR] |
| Group STATUS | GETGROUP [CR] | R: GETGROUP <reply> [CR] |
| Scenes COMMAND | SCENE <command> [CR] | R: SCENE <command> [CR] |
| Scene STATUS | GETSCENE [CR] | R: GETSCENE <reply> [CR] |
| GLOBALs COMMAND | GLOBAL <command> [CR] | R: GLOBAL <command> [CR] |
| GLOBAL STATUS | GETGLOBAL [CR] | R: GETGLOBAL <reply> [CR] |
| OCCUPANCY IND STATUS | GETOCC LOAD [CR] | R: GETOCC LOAD <reply> [CR] |
| OCCUPANCY GROUP STATUS | GETOCC GROUP [CR] | R: GETOCC GROUP <reply> [CR] |
| OCCUPANCY LOCAL PRESET STATUS | GETOCC SCENE [CR] | R: GETOCC SCENE <reply> [CR] |
| OCCUPANCY OCC GLOBAL PRESET STATUS | GETOCC GLOBAL [CR] | R: GETOCC GLOBAL <reply> [CR] |
| Local Photo STATUS | GETPHOTO [CR] | R: GETPHOTO <reply> [CR] |
| Global GPH STATUS | GETGPH [CR] | R: GETGPH <reply> [CR] |
| CUSTOM | | |

NOTE: Outgoing commands require the Command Parameters of the 3rdparty device.

