OVERVIEW

The CRC1301 Stand-Alone Programmable Controller (SPC) is the main processing device of the 2-Wire system. It directs commands received from input devices or the host system to the lighting control devices for ON/OFF and Dimming Control.

FEATURES

- New IoT (Internet of Things) chipset allows for real-time control and status feedback of all connected devices via web server functionality
- Provides signal and power to the connected 2-Wire bus devices through polarity-free, topology-free 2-Wire communication bus
- Program setting, control, and monitoring of the system achieved through embedded device software accessed via ethernet connection
- Built-in Real Time Clock (RTC) provides reliable event scheduling for the system
- Built-in Modbus (RS-485 and TCP/IP)
- BACnet connectivity and control available through an additional protocol converter
- Built-in LED status lights for system troubleshooting
- Global Addressing allows for cross-system monitoring and control

ADDRESSING

INDIVIDUAL CONTROL FUNCTIONS:
- 64 Individual addresses
    (0-1,0-2,0-3,0-4,1-1,...15-4)
- ON/OFF Control
- Dimming Level (1~127)

PATTERN CONTROL FUNCTIONS:
- 72 Pattern addresses
- Scene Control
- Dimming Level (1~127)
    (Set internal to Pattern)

GROUP CONTROL FUNCTIONS:
- 127 Group addresses
- Group ON/OFF Control
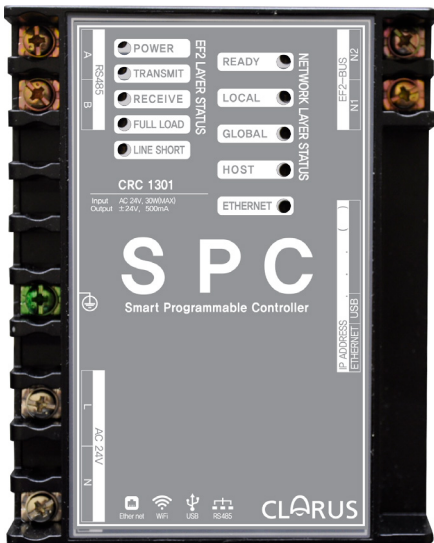- Dimming Level (1~127)
    (Only through software control)

GLOBAL CONTROL FUNCTIONS:
- Control Individual, Group, or Pattern Addresses in other SPC/IPC through any available Individual Address on current system

SPECIFICATIONS

Size: 2.35"H x 3.94"W x 4.90"L (Overall)
(60mm x 100mm x 124mm)
Weight: 0.825 lbs.
Mounting: Panel Mounting Strap (x5)
Output Signal: ±24VAC
500 mA

Input Signal: 24VAC, Class II
Operating Temp: 14 to 122°F (-10 to 55°C)
Ethernet: 10/100 Ethernet TCP/IP
Modbus TCP
Requires UTP Cable
Category 5 or greater

Max number of units (Ethernet): 250
Max number of units (RS-485): 31
Individual Addresses: 64
Group Addresses: 127
Pattern Addresses: 72
Global Addresses: 256
Time Clock: Real-Time Clock (RTC)
Astronomical
Remote Update: Via USB
Web Browser: Setting/Monitor/Control

LED STATUS DEFINITION

LABEL	COLOR	DEFINITION
POWER	RED	Solid when power is supplied to device
TRANSMIT	GREEN	Solid when signal is being transmitted
RECEIVE	GREEN	Solid when signal is being received
FULL LOAD	ORANGE	Solid when current consumption of 2-Wire system is over maximum capacity (500 mA)
LINE SHORT	RED	Solid when 2-Wire bus wires are shorted
READY	RED	Flickering: Device is in boot-up Solid: Device is ready to use
LOCAL	GREEN	Solid when 2-Wire signal is transmitting
GLOBAL	GREEN	Solid when Global control signal is transmitting
HOST	GREEN	Solid when Host signal is transmitting
ETHERNET	GREEN	Solid when Ethernet connection is made