ETHERNET CONTROL SYSTEMS

UNIVERSAL GATE CONTROLLER

Overview

The ECON Universal Gate Controller (UGC) allows integrators to incorporate control for all types of vehicular gates commonly found at correctional facilities including overhead coiling gates, sliding gates and swing arm gates. The UGC is available in a 1 RU format that fits easily in open frame or enclosed data racks as well as a panel mount version for use in wall mount enclosures. Both formats allow installers to easily access the wiring connections on both the front and rear panels. The rack mount format also affords installers the use of standard 19" rack wire management hardware.

Control

The UGC controls up to 6 gates and includes an input for each gate for status monitoring. Each field wire connector includes a terminal for the gate operator voltage input, a N.C. terminal for stop, and N.O. terminals for open (raise) and close (lower). It also includes a +24 vdc output and a status input for monitoring. Like all ECON I/O, the UGC allows users to associate any input in the system with any output.

Management

The UGC includes an LCD display to that shows device information such as IP address, subnet mask, gateway etc. as well as the status of each input and output.

The UGC can be easily configured using the ECON Configuration utility or through the embedded web server. Users can edit network settings, monitor input and output status and view or edit other controller parameters.

Communication

The UGC utilizes industry standard 802.3u fast Ethernet for control communication. Like all ECON controllers, the UGC utilizes a highly secure encryption algorithm to guard against unauthorized control or monitoring. The UGC utilizes ECON's Open Protocol Integration platform (OPI), which allows integrators to utilize either ECON's powerful CAM software for control or most major PLC control packages.

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Specifications:

Gate Control Made Easy.

General

Rack mount Dimensions (H x W x D) .....1.75" x 19" x 7.75"

Panel mount Dimensions (H x W x D).....2.15" x 6.25" x 12.75"

Rack Mount Weight.....6.5 Lbs

Panel Mount Weight .....5.6 Lbs

Environmental

Storage Temperature..... -40° to 85° C (-40° to 185° F)

Operating Temperature.....0° to 50° C (32° to 122° F)

Storage Humidity.....5 to 85% relative humidity, non-condensing

Operating Humidity.....5 to 85% relative humidity, non-condensing

Electrical

Rack Mount operating Input voltage .....90-264 VAC

Panel Mount operating Input voltage 24VDC

Inputs .....6 sourcing inputs – voltage isolation 5300Vrms

Outputs .....Six N.C. outputs and Twelve N.O. outputs 10 Amp contact rating at 120 / 240 VAC

Max Power consumption ..... 45 Watts

Communications

Ethernet.....1 x 10/100 auto sensing

- Support for Hardwired TCP/IP Protocols TCP, UDP, ICMP, IPv4 ARP, IGMP, PPPoE, Ethernet
- 10BaseT/100BaseTX Ethernet PHY embedded
- Auto Negotiation (Full-duplex and half duplex)
- Auto MDI/MDIX
- ADSL connection (with support for PPPoE Protocol with PAP/CHAP Authentication mode)
- ECON OPI platform
- Supports up to 4 independent sockets simultaneously
- Internal 16Kbytes Memory for Tx/Rx Buffers
- 0.18 µm CMOS technology
- Serial Peripheral Interface(SPI MODE 0, 3) Multi-function LED outputs (TX, RX, Full/Half duplex, Collision, Link, Speed)

USB.....1 x USB 2.0 Mini-B

Wiring Summary

Each field wire connector includes the following:

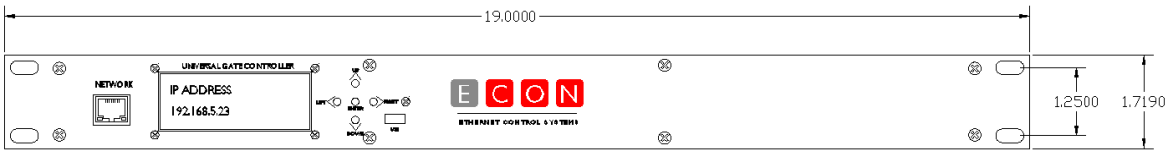
1. Terminal 1 – Gate controller voltage input
2. Terminal 2 – N.C. (Stop output)
3. Terminal 3 – N.O. (Open/Raise output)
4. Terminal 4 – N.O. (Close/Lower output)
5. Terminal 5 - +24 out for status switch
6. Terminal 6 – Gate status Input

Model Numbers

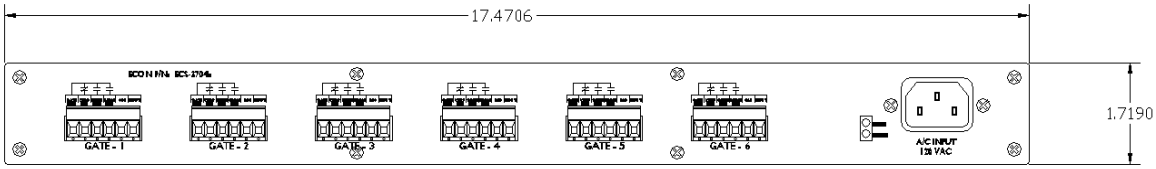
ECS-3704B-RM .....Rack mount controller
ECS-3804B-PM .....Panel mount controller

Universal Gate Controller RACK MOUNT Dimensional Drawings

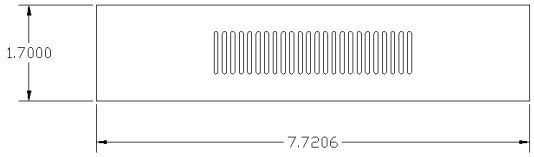
Front Panel View



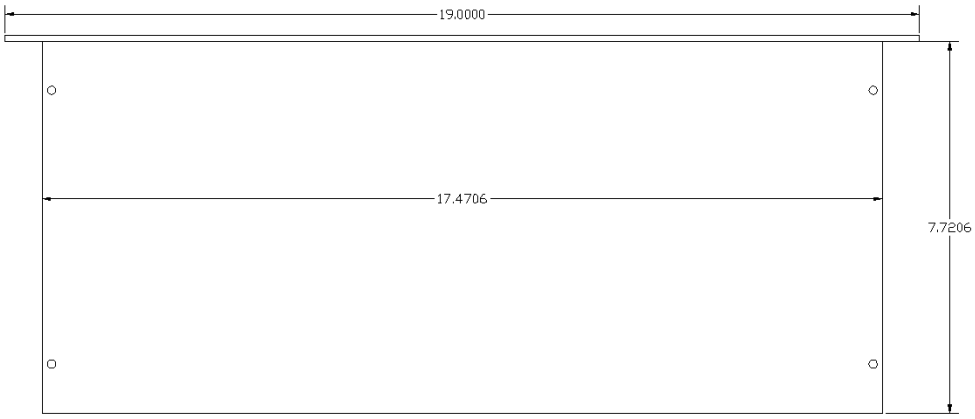
Rear Panel View



Side View

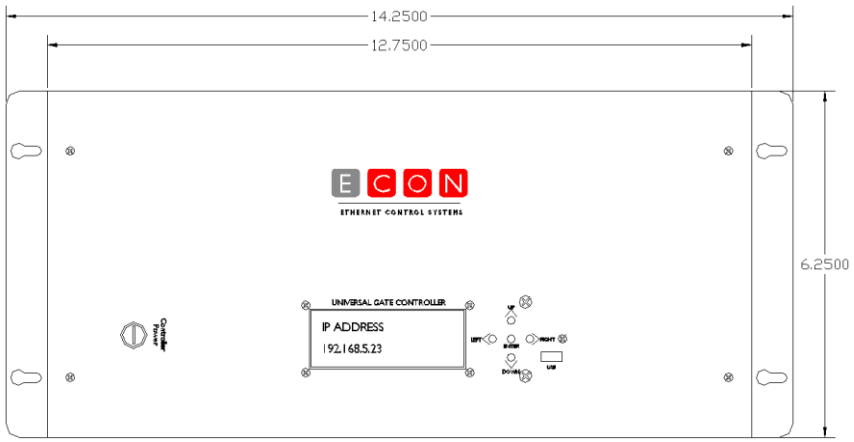


Top View

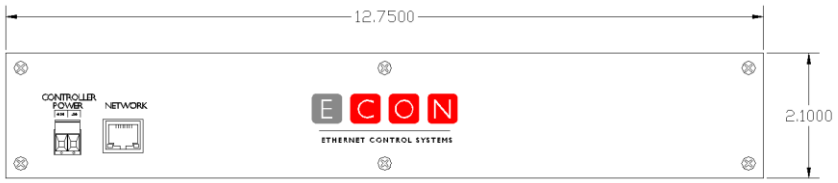


Universal Gate Controller PANEL MOUNT Dimensional Drawings

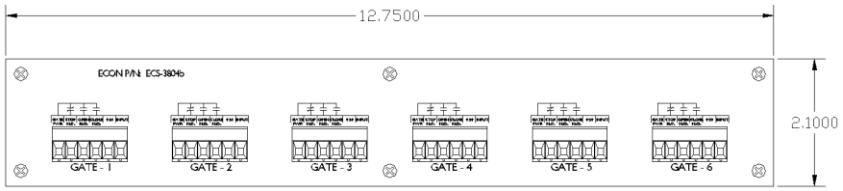
Top View



Front Panel View



Rear Panel View



Side View