

# Ramp Controller 2



## Features

- Counts vehicles in multiple lanes or ramps
- Five mappable, self-tuning vehicle detectors monitor up to two bi-directional lanes or five uni-directional lanes
- Controls up to four high voltage relays, such as Federal APD's "FULL" Signs at 115/220V
- Eight digital outputs (pulsed or latched) are configurable for control of external devices, such as "FULL" signs or counters
- Communicates counts, loop status and device status for each lane to the ScanNet™ Central Management System
- Programming with a PDA (Personal Digital Assistant) via an infrared interface.
- Integrated tuning and reset of vehicle detectors
- Steel NEMA Type 12 enclosure

## Facility Control

The Federal APD Ramp Controller 2 is a multifunctional parking control device capable of tracking either one-way or two-way traffic

on internal lanes and ramps in a parking facility. By monitoring traffic flow at strategic points, the Ramp Controller 2 provides the central management system with the data necessary to maintain an accurate, real time vehicle inventory for each of the facility's parking areas, lots and zones.

Each Ramp Controller 2 has the ability to be set up in various lane configurations, which can support as many as five uni-directional lanes, two bi-directional lanes, or a combination of the two. The I/O Ports are mappable using the PDA, making the RC2 a flexible control device.

Ramp controllers help to direct traffic into or away from parking areas by activating or deactivating "FULL" signs. This type of control enables you to maximize lot capacity, providing your parking patron with easy notification of any parking spaces available or full conditions.

Vehicle counts (forward and reverse), loop status and system status are transmitted to Federal APD's Central

Management System, ScanNet™. The Central Management System remotely controls the "FULL" signs, which are operated by the Ramp Controller 2.

## Features

The Ramp Controller 2 package contains a microprocessor-based control board that is enclosed in a factory-sealed package that is easily changeable as a plug-in controller module. The controller is equipped with LED indicator lights to provide the status of the vehicle detectors and to ensure a power supply voltage is being generated.

Also included with the enclosure are well-marked terminals for ease of installation and servicing. The Ramp Controller 2 receives power from a separate power supply unit that is capable of delivering power to up to ten RC2 units. The power supply is also enclosed in a separate steel NEMA Type 12 Enclosure.

## Communication Interface

Programming the Ramp Controller 2 is easy with a PDA (Personal Digital Assistant) using the Ramp Controller Programming Utility. Programming is transferred between the PDA and RC2 via serial infrared communications. With online communication to the ScanNet™ Central Management System, you receive the complete control you need to maintain the fullest possible occupancy along with the highest possible revenues from your parking enterprise.



*Freedom for Control*

# Ramp Controller 2

## Specifications

### Features:

- Monitors one-way traffic with one detector loop or two-way traffic with two detector loops
- Five self-tuning vehicle detection loops enable monitoring of up to two bi-directional lanes, five uni-directional lanes, or other lane configurations
- Federal APD's Tailgating Recognition System is capable of distinguishing two vehicles within 6" (152mm) of each other on a standard 2.5' x 6' (0.762m x 1.828m) vehicle detection loop
- Eight digital outputs (pulsed or latched) are selectable through the PDA configuration
- Up to four digital outputs are capable of operating "FULL" signs when used in conjunction with the count system option in the ScanNet™ system
  - Four AC relays are provided, each with one Form C contact (120VAC at 10A), to accommodate large incandescent "FULL" signs
- Easily field-configurable using a PDA (Personal Digital Assistant with 8 MB internal memory or higher), and Palm™ OS software (V4.0 or higher) connected via infrared
- Communicates the following:
  - Vehicle counts: forward and reverse
  - Loop status: loop presence/frequency
  - System activity monitor
  - Device status
- All electronic components of the Federal APD Ramp Controller 2 Board are contained in one factory-sealed package, which is readily changeable as a plug-in controller module
- RC2 control unit:
  - 17 1/4" H x 15 1/4" W x 3.4" D (438mm H x 387mm W x 86mm D)
- Equipped with LED indicator lights to provide operational status of the vehicle detector loops and the controller, including:
  - Loop presence A, B, C, D, E
  - Loop tuning A, B, C, D, E

### Electrical:

- RC2 power supply unit:
  - Input: 85-264VAC, 50/60Hz
  - Outputs: 24VDC for up to ten (10) RC2 units, each powered independently
- RC2 input: 24VDC +/- 10%, 0.5A max draw

### Mechanical:

- Steel NEMA Type 12 enclosures
- RC2 power supply unit:
  - 13.35" H x 12.12" W x 6.25" D (339mm H x 306mm W x 159mm D)



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For more information  
federalapd.com  
800.521.9330



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