

Parking Barrier Gate

G-90 CD Series



Design and Function

The G-90 CD Series barrier gate provides microcomputer intelligence, multiple programming options and on-board controls for total lane management.

Protect Your Investment

The G-90 CD Series continues the tradition of high quality barriers that you depend on from Federal APD. The gate is extremely durable in the harshest environments. Its heavy-gauge aluminum cabinet is armored with a weather-resistant finish to keep your installation looking clean and new for years of rust-free service.

Omega LCD Controller™

The heart of this gate is the Omega LCD Controller™. This fully integrated controller provides a systems approach for convenient, accurate and cost-effective lane management.

Lane Configuration

The G-90 CD Series can handle any type of lane configuration possible – including reversing lanes and lanes with three vehicle detectors – with software options embedded into the unit's Configuration Module. This factory programmed microcontroller plugs into the power board and defines the software options used in the gate.

Counts You Can Count On

The G-90 CD Series allows you to design an on-board information center with counting functions integrated into a single self-contained device. The controller's software logic integrates optional counting functions such as resettable and nonresettable totalizing counts, single and dual differential counts, hourly counts and a host of statistical counts. These counts can be viewed on the controller's visual display and are accessed by the menu-driven keypad.

Vehicle Detectors

Three integrated and automatically self-tuning vehicle detectors are available. These high-speed detectors provide a sensitive tailgating recognition system that is capable of recognizing two separate vehicles traveling over a detector loop simultaneously. Diagnostic and metering tools are also built into the controller.

Sensitive Reversing Logic™

An advanced, maintenance-free safety and monitoring system is designed into every gate: Sensitive Reversing Logic™ (SRL). This system provides safer gate operations by instantly sensing gate arm obstructions, limit switch failures, and gate arm position – without the use of electromechanical systems. The SRL sensing system also features self-tuning capabilities.

Features

- Advanced Omega LCD Controller™ with visual display
- Power Supply Board provides multiple input/output terminals
- Total lane management with
 - Two built-in vehicle detectors
 - Sensitive Reversing Logic
 - Built-in diagnostics
 - Event history report
 - Back-out timer
 - 7 day memory & data storage

Options

- Third integrated vehicle detector
- Totalizing & differential counts
- Automatic time zone controls
- Hourly statistical reports
- Directional logic
- Communications interface to ScanNet™ Central Management System



Omega LCD Controller™

FEDERAL APD
A Federal Signal Company

Freedom for Control



Parking Barrier Gate

Specifications

Features

Omega LCD Controller™ provides all logic control and monitoring functions

- 11 digital inputs
- 14 outputs, 1A at 24VDC/VAC
- 16 character LCD display and a keypad to perform programming, send commands and monitor lane operations
- Two integrated, self-tuning loop detectors, third optional
- Logic for one-way lanes, two-way lanes, operations with automatic ticket dispensers, push-button ticket dispensers, card locks and token units. Is easily field programmable through the use of DIP switches or keypad buttons
Maximum counting accuracy
- Stores successive vend inputs of any type and sequentially processes each vend
- LED indicator lights provide operational status of detectors and controller
- Configuration Module (a 20-pin, 8-bit, fully static, EPROM/ROM based micro-controller) defines available software options
- Diagnostic mode facilitates on-site testing of loop detectors, LCD keypad buttons, LCD display, internal clock, Configuration module, 115V power supply line voltage, Omega LCD communication ports, and I/O
- Sensitive Reversing Logic™ (SRL) ensures gate arm automatically rises upon contact with any object during descent
- "AUTO-MANUAL" switch provided to test motor and limit switches or to raise arm manually
- UL Listed (Canada/U.S.)

Electrical

- Input: 115VAC, 15A standard, 220V optional
- One (1) high voltage plug-in relay with two form C contacts, second relay optional
- 115VAC convenience outlet provided
- Built-in thermal overload switch protection

Mechanical

- Cabinet constructed of heavy-gauge aluminum, finished in a weather-resistant powder coat
- All reducers and motors mounted on a single 1/4" (6.25 mm) uni-bracket weldment for maximum strength in high load applications
- Gasketed door has flush-mounted, Thandle lock
- 1/3 HP, heavy duty, high output torque, 115VAC, single phase, instant-reversing motor.
- Cams allow adjustment of gate arm travel, no mechanical stops or braking devices required
- 15" W x 40" H x 15" D (381mm W x 1016mm H x 381mm D) with a flange arm height of 35.5" (902mm)



Freedom for Control



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