



# FALCO CONTROLLER



## Overview

The FALCO controller is designed for access control of doors, intrusion alarm monitoring, time attendance, vehicle boom gate and other building facilities. The FALCO door controller is capable of controlling a single door by connecting to a central computer for remote controlling or up to 100 units can be networked together and controlled using Falco Ecom software, a PC-based Access Management and Alarm Monitoring Software.

Designed in an innovative modular fashion, Falco controller allows you to upgrade your system anytime from 1 to 10000 doors by connecting to Falco Site Controllers (1 site controller up to 100 doors) via TCP/IP Local Area Network configuration and manage by Falco Enterprise System software. This modular, cost-efficient upgrade strategy ensures that you can always keep pace with your emerging security requirements while meeting your ongoing budgetary objectives. Its wide capabilities make it suitable for even the largest, most complex building architectures and the most demanding security requirements. The FALCO controller has 2 Wiegand reader ports, and has a space for either the entry or exit reader to be mounted. The controller can be configured to work with almost all reader technologies without hardware change - including with Wiegand, ABA track 2 and contactless Read/ Write smart card.

## Feature

### Advanced Design

The Falco door controller uses the latest state-of-the-art flash memory technology which allows firmware upgrade. Essential equipment settings, card database and transaction database are stored in EEPROM, so that there is no loss of data during power outage.

### Multiple Entry Access Mode

There are 3 different entry access modes that you can set to adjust to your security requirements: Card only, PIN only and Card & PIN only. This means a door can be programmed to operate on different entry access mode at either same or different time for each day of the week, including weekends and holidays. For example, a door can be programmed to operate on 'Card only' entry mode during office hours but automatically switch to 'Card & PIN only' entry mode after office hours.

### Use of Single Card to Perform Multiple Functions

The prowess of the Falco door controller is its ability to allow a single card to perform multiple functions through software control. The types of functions consist of normal access control, programming, Arm/DisArm, guard tour, etc.

### Schedules Settings

Up to 50 sets of weekly timers, where each daily timer consists of 3 sets of start and stop time interval settings can be used for system behavior control. These timers are also tagged to a day-of-week selection, which are used for all timers related operations, such as locking and unlocking of doors, activating of User PIN function, etc.

### Automatically Locking and Unlocking of Door

Quite often you may want to unlock the office main entrance door during office hours, but the door shall be locked during lunch break and after office hours. This requirement can be achieved through timer(s) controls.

### Power Supply

Falco Controller comes with battery charging and a power regulation circuit. The input power requirement is 14VAC, and a lead-acid battery can be connected to the charger output. In addition, AC power failure, low battery cut off and battery low status sensing are built-in.

## Specification

- MCU : MC68HC908GP32 8-bit MCU Running at 7.3728 MHz
- Memory : 32KB FlashROM, 32KB EEPROM
- Watchdog : 1 Internal / 1 External
- Serial Interface : RS485 or Multi-drop
- Baud Rate : 2400 / 9600 selectable
- Relay Output : 10A contact rating
- Power Supply : 14VAC input, 13.8VDC output, 1.5 ~ 3.0A output
- Current Consumption : 1.5A
- Dimensions : 50mm(H) x 85mm(W) x 150mm(D)
- Large Memory : Stores up to 100,000 user cards and 50,000 transactions
- PIN only, Card only, and Card Plus PIN Operation Modes
- Lock-out of a card when its PIN is wrongly entered repeatedly

## Key Highlights

- Supports all major card reader technologies - barcode, magnetic, Wiegand, proximity, contact & contactless smart card
- Expandable up to 100 doors(Falco Ecom) and 10000 doors(Falco Site Controller and Falco Enterprise)
- Stores up to 100,000 card database size, each with 4 PIN codes
- Stores up to 50000 past transaction records

## Order Information

**FALCO-CTRL-8 SERIES-2W(1.5A)** : Normal Door Access Controller