

# HS81-HS/L

# COMPACT INDUSTRIAL

# FIRE CONTROLLERS

The HS81-HS/L is the compact version of the HS81-HS with a single or double power supply, respectively. The compact panel is smaller than the HS81-HS, designed to fit in tight spaces but it is also for use by those who would like a discreet, end-user-friendly system.

Like the HS81-HS, it provides an integrated industrial protection system that includes flame, gas and smoke detection; logic control and networking equipment; suppression and extinguishing capability; public address, sounders, beacons and other safety components.

Each panel is a modular system comprised of an enclosure (a metal cabinet with double door), display, a redundant CPU, and up to 8 (eight) I/O cards. The number and type of I/O cards are selected based on the protection needs of the facility. These panels have a single or dual redundant power supply to match either requirement.



## MECHANICAL FEATURES

- Cabinet: sheetmetal with internal door and transparent outer door; stainless steel option available upon request
- Color: RAL 7035 (Industrial Gray standard), RAL 3000 (Red for fire, optional)
- Protection degree: Cabinet rated for IP54/IP66
- Installation: wall mounting
- Size: 27.5" (700mm) x 19.7" (500mm) x 9.8" (250mm)
- Maximum batteries charging current: 4A, up to 65Ah. Up to 14Ah allowed inside cabinet. Larger batteries require use of a separate cabinet
- Protections: surge, short-circuit and reverse battery

## ELECTRICAL SPECIFICATIONS

- Input power: 110-240 VAC ( $\pm 10\%$ )
- Nominal output power: 24VDC
- Maximum output power: 4A/8A (dual supply version)

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## FEATURES AND BENEFITS

- Fire Detection
- Gas Detection
- Fire Suppression
- Hot-swap with all I/O cards, CPUs, and display
- Addressable eight I/O cards maximum
- 300 programmable fire zones
- 300 programmable intrusion zones
- 1 suppression zone per I/O card
- 99 input, 99 output, 99 association points per zone
- Power Supply and CPU Redundancy
- Networking panels with TCP/IP protocol
- Modbus RTU/Modbus TCP Protocols for interfacing with third party systems

## COMPATIBLE I/O CARDS

The compact version of the HS81-HS/L panel is compatible with all HS81-HS non-redundant I/O cards listed below:

TECHNICAL	
Applicable Safety category	Up to SIL2
Redundancy	CPU and Power Supply
IO Card Capacity	08 nos. (Max)
Operating Temperature	-5 $\mu$ C / +50 $\mu$ C
Max Humidity	0-95% non condensing

AGENCY LISTING & APPROVALS
ATEX
EN12094
EN54-2, EN54-4
IEC61508; SIL2 Certified

COMPATIBLE I/O CARDS		
CARD P/N	DESCRIPTION	APPLICATION
F3002	8 Inputs Conventional Detection	Conventional Fire and Gas detection
F4001	4-20mA Detection 1 Input	Gas, Flame and Temperature Detection with bar chart and # value
F4002	4-20mA Detection 2 Inputs	Gas, Flame and Temperature Detection with # values
F4003	4-20mA Detection 8 Inputs	Gas, Flame and Temperature Detection with LED indication
F5001	8 Supervised 500mA Outputs	Solenoids, Actuation Devices
F5002	16 Non-supervised Outputs	Relays, LEDs, Hardwired signals to third party systems
F5003	8 Supervised 250mA Outputs for NACs	Notification Appliances
F5004	4 Supervised 2A Outputs	High Power Solenoids and Actuation Devices
F6001	One Zone Suppression	Gas, Flame and Temperature Detection with bar chart and # value
F6002	Additional Logic Functions	Gas, Flame and Temperature Detection with # values
F6002	Addressable Loop - Hochiki ESP Protocol	Gas, Flame and Temperature Detection with LED indication
F7006	Addressable Loop - Apollo Protocol	Solenoids, Actuation Devices
F7009	Addressable Loop - Apollo Protocol	Relays, LEDs, Hardwired signals to third party systems
F7011	Safety Bus for Remote I/O connection	Notification Appliances
F7010	Addressable Loop System Sensor Protocol	High Power Solenoids and Actuation Devices

Note: Contact sales person for the actual part no suitable for EN or UL listing

# HS81-HS/L COMPACT INDUSTRIAL FIRE CONTROLLERS

ORDERING DATA	
ITEM NO.	DESCRIPTION
HS81-HS/L-Single	EN Compact panel 8 slots, Double CPU, Single Power supply
HS81-HS/L-Double	EN Compact panel 8 slots Double CPU, Double Power supply
HS81-HS/L-Single-R	EN Compact 8 slots, Dbl CPU, Single supp - Red cab
HS81-HS/L-Double-R	EN Compact 8 slots, Dbl CPU, Single supp - Red cab
HS81-HS/M-Single	Marine Compact panel 8 slots Double CPU, Single Power supply
HS81-HS/M-Single-R	Marine Compact 8 slots 2 CPU, 1 supply - Red cab

For more information,  
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This document is not intended to be used for installation purposes.  
 We try to keep our product information up-to-date and accurate.  
 We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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 INDUSTRIAL FIRE  
 CONTROLLERS**

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