

# FC-BKM-0001-V1.1

## Safety Manager Battery and Key Module

Honeywell FC-BKM-0001-V1.1 is a Battery and Key Module for Safety Manager hardware. It provides battery-backed service support and keyed module-interface functions within the documented safety-controller arrangement.

|       |                  |             |                                               |
|-------|------------------|-------------|-----------------------------------------------|
| BRAND | Honeywell        | FAMILY      | Honeywell Safety Manager                      |
| PART  | FC-BKM-0001-V1.1 | SYSTEM ROLE | Provides the Safety Manager battery interface |

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FC-BKM-0001-V1.1

### MANUFACTURER SOURCE RECORD

Safety Manager Hardware Reference  
Honeywell EP-SM.MAN.6284, Issue 1.10, BKM-0001 datasheet version 1.1

# Product Overview

## SYSTEM FUNCTION

Honeywell FC-BKM-0001-V1.1 is a Battery and Key Module for Safety Manager hardware. It provides battery-backed service support and keyed module-interface functions within the documented safety-controller arrangement.

### FUNCTION 1

Provides the Safety Manager battery interface

### FUNCTION 2

Carries the documented keyed module function

### FUNCTION 3

Uses short-circuit-protected output circuitry

### FUNCTION 4

Supports the specified lithium battery execution

## System Components

| COMPONENT           | DOCUMENTED ROLE                                                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host / carrier      | Honeywell Safety Manager                                                                                                                                                                                                                    |
| Primary interface   | Provides the Safety Manager battery interface                                                                                                                                                                                               |
| Engineering context | The module is connected to the Safety Manager hardware using the documented 24 V and 5VR supplies and fitted battery arrangement. Commissioning checks supply polarity, battery identity, key position, outputs and controller diagnostics. |
| Commissioning duty  | Complete the documented safety-function test before returning the process to service.                                                                                                                                                       |

## TECHNICAL NOTE

Install FC-BKM-0001-V1.1 only in the documented Safety Manager position and record key state, battery polarity and module connections before removal. Use ESD controls, fit the specified batteries, restore the approved hardware arrangement and verify module, battery and controller diagnostics before release.

# Technical Data

| PARAMETER         | VALUE                                          | PARAMETER         | VALUE                                            |
|-------------------|------------------------------------------------|-------------------|--------------------------------------------------|
| Model             | FC-BKM-0001                                    | 5VR current       | 10 mA maximum                                    |
| Datasheet version | 1.1                                            | Output voltage    | 14 to 31 V DC                                    |
| Supply            | 24 V DC, -15 to +30 percent                    | Output resistance | Approximately two 1.1 kohm resistors in parallel |
| Supply current    | 20 mA maximum; 7 mA typical with shared supply | Output protection | Continuous short-circuit proof                   |
| 5VR supply        | 5 V DC +/-10 percent                           | Battery type      | SAFT LS14500CFG Li-SOCl2                         |

## Related Products on Apter Power

| MODEL         | SYSTEM ROLE                         | APTER POWER PAGE                        |
|---------------|-------------------------------------|-----------------------------------------|
| 51401469-100  | HPM UCN controller board            | <a href="#">View 51401469-100 page</a>  |
| MC-TAOX52     | analog output FTA                   | <a href="#">View MC-TAOX52 page</a>     |
| CC-PSV201     | 51454123-175 servo valve positioner | <a href="#">View CC-PSV201 page</a>     |
| CC-TSV211     | 51306665-175 servo valve module     | <a href="#">View CC-TSV211 page</a>     |
| CC-PPIX01     | 51410089-175 pulse input module     | <a href="#">View CC-PPIX01 page</a>     |
| 51198651-100  | HPM power supply                    | <a href="#">View 51198651-100 page</a>  |
| FS-PDC-FTA24P | FTA power cable                     | <a href="#">View FS-PDC-FTA24P page</a> |
| FC-PSU-240516 | V1.1 safety power unit              | <a href="#">View FC-PSU-240516 page</a> |

### ENGINEERING BOUNDARY

Confirm FC-BKM-0001-V1.1, Safety Manager host, module revision, 24 V and 5VR supplies, key position, specified SAFT batteries, polarity, output wiring, connectors, grounding, controller configuration and functional-test results before commissioning.

# Applications and Precautions

## Common Applications

### Safety Manager memory support

Maintains the documented battery-backed function during an approved controller outage.

### Controller key management

Provides the installed keyed interface used during authorized maintenance.

### Safety-system module replacement

Restores an exact BKM hardware position with controlled configuration checks.

### Battery condition verification

Supports documented battery identity, polarity and diagnostic inspection.

## Product Precautions

- 1

Confirm FC-BKM-0001-V1.1, module version and installed Safety Manager position.
- 2

Place the affected safety functions in the approved bypass or maintenance state.
- 3

Isolate the module supplies and use ESD-safe handling procedures.
- 4

Record 24 V, 5VR, output, key and battery connections before removal.
- 5

Inspect connector keying and fit only the specified battery type with correct polarity.
- 6

Restore the approved Safety Manager hardware and key configuration.
- 7

Verify supply, battery, output and controller diagnostics after power-up.
- 8

Complete the documented safety-function test before returning the process to service.

## IMPORTANT NOTICE

Confirm FC-BKM-0001-V1.1, Safety Manager host, module revision, 24 V and 5VR supplies, key position, specified SAFT batteries, polarity, output wiring, connectors, grounding, controller configuration and functional-test results before commissioning.

| ACCEPTANCE CHECK   | REQUIRED EVIDENCE                                                                     |
|--------------------|---------------------------------------------------------------------------------------|
| Identity           | FC-BKM-0001-V1.1                                                                      |
| Configuration      | Verify supply, battery, output and controller diagnostics after power-up.             |
| Functional release | Complete the documented safety-function test before returning the process to service. |

## Engineer FAQ

### Q1 How should the complete FC-BKM-0001-V1.1 identity be verified before replacement?

Confirm FC-BKM-0001-V1.1, Safety Manager host, module revision, 24 V and 5VR supplies, key position, specified SAFT batteries, polarity, output wiring, connectors, grounding, controller configuration and functional-test results before commissioning.

### Q3 Which host or carrier must be checked before installing FC-BKM-0001-V1.1?

The module is connected to the Safety Manager hardware using the documented 24 V and 5VR supplies and fitted battery arrangement. Commissioning checks supply polarity, battery identity, key position, outputs and controller diagnostics.

### Q5 Which wiring or connector records should be retained for FC-BKM-0001-V1.1?

Record 24 V, 5VR, output, key and battery connections before removal. Inspect connector keying and fit only the specified battery type with correct polarity.

### Q7 Which diagnostics must be reviewed after fitting FC-BKM-0001-V1.1?

Verify supply, battery, output and controller diagnostics after power-up.

### Q2 What system role does FC-BKM-0001-V1.1 perform in the documented installation?

Honeywell FC-BKM-0001-V1.1 is a Battery and Key Module for Safety Manager hardware. It provides battery-backed service support and keyed module-interface functions within the documented safety-controller arrangement.

### Q4 What isolation and ESD controls apply when handling FC-BKM-0001-V1.1?

Place the affected safety functions in the approved bypass or maintenance state. Isolate the module supplies and use ESD-safe handling procedures.

### Q6 How should the approved configuration for FC-BKM-0001-V1.1 be restored?

Restore the approved Safety Manager hardware and key configuration.

### Q8 What controlled acceptance test completes work on FC-BKM-0001-V1.1?

Complete the documented safety-function test before returning the process to service.

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