

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	Honeywell Safety Manager
Part number	FC-BKM-0001-V1.1
Product role	Provides the Safety Manager battery interface
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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.

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FC-BKM-0001-V1.1

Technical Specifications

Technical values below are limited to the named Honeywell product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Model	FC-BKM-0001	Output resistance	Approximately two 1.1 kohm resistors in parallel
Datasheet version	1.1	Output protection	Continuous short-circuit proof
Supply	24 V DC, -15 to +30 percent	Battery type	SAFT LS14500CFG Li-SOCI2
Supply current	20 mA maximum; 7 mA typical with shared supply	Battery voltage	3.6 V nominal
5VR supply	5 V DC +/-10 percent	Battery capacity	Greater than 2 Ah
5VR current	10 mA maximum	Operating temperature	-5 to +70 deg C
Output voltage	14 to 31 V DC	Storage temperature	-40 to +85 deg C

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Honeywell Safety Manager
Primary system role	Provides the Safety Manager battery interface
Connection boundary	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.
Controlled acceptance duty	Safety Manager memory support

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.

Pre-Installation Checks

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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	FC-BKM-0001-V1.1
Installed host	Honeywell Safety Manager
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Honeywell Safety Manager
2	1.1
3	Safety Manager memory support
4	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.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Honeywell Safety Manager
Interface role	Provides the Safety Manager battery interface
Field / power 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 evidence	Complete the documented safety-function test before returning the process to service.

Installation and Connection Checks

1 Inspect connector keying and fit only the specified battery type with correct polarity.	2 Restore the approved Safety Manager hardware and key configuration.
3 Verify supply, battery, output and controller diagnostics after power-up.	4 Complete the documented safety-function test before returning the process to service.

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

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.

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.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	FC-BKM-0001-V1.1 recorded
Host / carrier	Honeywell Safety Manager
Physical interface	Provides the Safety Manager battery interface
Configuration	Verify supply, battery, output and controller diagnostics after power-up.
Functional proof	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.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	FC-BKM-0001-V1.1
Approved role	Safety Manager memory support
Final validation	Complete the documented safety-function test before returning the process to service.

Engineering 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.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
FS-PDC-FTA24P	FTA power cable	View FS-PDC-FTA24P page
FC-PSU-240516	V1.1 safety power unit	View FC-PSU-240516 page
8C-PCNT01	51454363-175 controller assembly	View 8C-PCNT01 page
8C-IP0101	51454362-175 I/O assembly	View 8C-IP0101 page
8C-PAIH51	51454352-175 HART analog input	View 8C-PAIH51 page
8C-PDIL51	51454359-175 digital input	View 8C-PDIL51 page
8C-PDODA1	51454472-175 digital output	View 8C-PDODA1 page
CC-TAOX01	analog output IOTA	View CC-TAOX01 page

MANUFACTURER SOURCE RECORD

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