

FC-BKM-0001-V1.1

Safety Manager Battery and Key Module

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

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.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Honeywell article.

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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 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.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	FC-BKM-0001-V1.1
Host / carrier	Honeywell Safety Manager
Primary system role	Provides the Safety Manager battery interface
Acceptance boundary	Complete the documented safety-function test before returning the process to service.
Source record	Safety Manager Hardware Reference

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

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.

- 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.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

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.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	FC-BKM-0001-V1.1
Host match	Honeywell Safety Manager
Connection proof	Restore the approved Safety Manager hardware and key configuration.
Configuration proof	Verify supply, battery, output and controller diagnostics after power-up.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

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

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

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.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER 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
CC-TDIL51	51307083-175 digital input IOTA	View CC-TDIL51 page
CC-TDOR01	51308376-175 relay output IOTA	View CC-TDOR01 page
51401469-100	HPM UCN controller board	View 51401469-100 page
MC-TAOX52	analog output FTA	View MC-TAOX52 page
CC-PSV201	51454123-175 servo valve positioner	View CC-PSV201 page

MANUFACTURER SOURCE RECORD

Safety Manager Hardware Reference

Honeywell EP-SM.MAN.6284, Issue 1.10, BKM-0001 datasheet version 1.1

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