01 / Product and system dashboard

HONEYWELL

FC-BKM-0001 V1.1

Battery keyswitch module

Product role

Honeywell FC-BKM-0001 V1.1 combines controller backup batteries with Force Enable and Reset key-switch functions for a Safety Manager installation.

Backup batteries
Independent processor circuits

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BKM key switches
Force Enable / Reset

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Control Processors
Retained data and controlled actions

Engineering scope

The functional information describes BKM-0001. The offered FC-BKM-0001 V1.1 marking must be matched to the installed controller; the reference data-sheet version does not independently certify the offered hardware revision.

02 / Verified identity and technical relationships

Property	Applicable fact	Property	Applicable fact
Backup circuits	2 independent batteries	Supply	24 Vdc, -15% / +30%
Controller quantity	1 BKM per controller chassis	24 V current	20 mA maximum from each supply; 7 mA typical shared
Key switches	Force Enable and Reset	5VR supply	5 Vdc ±10%; 10 mA maximum
Battery technology	Non-rechargeable lithium thionyl chloride	Output voltage	14–31 Vdc
Battery voltage	3.6 V	Output resistance	Two 1.1 kohm resistors in parallel
Backup duration	Approximately 3 months accumulated	Output protection	Continuous short-circuit proof
Retained functions	Diagnostics, processor real-time clock and FTE IP addresses	Battery type	SAFT LS14500CFG; greater than 2 Ah
Force Enable OFF	Prevents forcing and removes active forces	Operating temperature	-5 to +70°C
Reset action	Both Control Processor watchdogs	Storage temperature	-40 to +85°C
Coating	FC conformal-coated type	Relative humidity	10–95%, non-condensing

Configuration boundary

Match the complete hardware marking and installed configuration to the applicability stated in this product summary.

03 / Applications and system integration

Controller backup

Retain the supported processor information during a supply interruption using the correctly maintained battery circuits.

Controlled forcing

Use the physical Force Enable key with the approved software forcing procedure and operational authorization.

Diagnostic recovery

Use the Reset function in the controller fault-recovery procedure, considering its effect on both processors.

Battery maintenance

Track battery age, accumulated discharge and the prescribed replacement type in the service record.

Functional context

The non-rechargeable lithium batteries preserve diagnostics, the processor real-time clock and FTE IP addresses during loss of power. The design provides approximately three months of accumulated backup time. Battery condition and discharge history matter: use the specified battery type and follow the scheduled replacement and long-shutdown procedure.

04 / Service and installation decisions

Match hardware version

Retain FC-BKM-0001 V1.1 and compare the installed controller and coating requirements.

Control active forces

Set Force Enable OFF and assess removal of active forces before extraction.

Use specified batteries

Use the prescribed non-rechargeable battery type; do not recharge or substitute an unapproved chemistry.

Plan extended shutdown

Follow the battery-switch procedure for storage or long power interruptions.

Review both processors

Reset and battery actions can affect the redundant controller arrangement; assess both Control Processors.

Verify return to service

Confirm battery and module indication, retained information and authorized forcing state before release.

05 / Reference basis and related portfolio

Lifecycle and supply

A current manufacturer lifecycle phase has not been confirmed. Request current support and replacement guidance using the complete FC-BKM-0001 V1.1 identity. Apter Power availability is confirmed separately in the quotation.

Reference basis

Honeywell Safety Manager Hardware Reference, EP-SM.MAN.6284, Release 162 Issue 1.10.

Apter Power technical summary. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Honeywell FC-TSDO-0824

Honeywell FC-TPSU-2430

Honeywell FS-IOBUS-CPIO

Discuss your installed configuration

Send the full unit marking and connection details.

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