01 / Identity and job scope

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

Applicability

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.

Hardware and configuration

The BKM-0001 design provides two independent batteries, one for each Control Processor, together with Force Enable and Reset key switches. Only one BKM is required in the controller chassis, including a redundant processor configuration. The FC designation identifies a conformal-coated type; retain the supplied V1.1 marking when matching the installed unit.

Planning basis

This Apter Power guide supports identification and engineering planning. Apply the complete manufacturer and machine-builder procedures for the actual installation.

02 / Configuration and interface readiness

Item	Configuration relationship
Backup circuits	2 independent batteries
Controller quantity	1 BKM per controller chassis
Key switches	Force Enable and Reset
Battery technology	Non-rechargeable lithium thionyl chloride
Battery voltage	3.6 V
Backup duration	Approximately 3 months accumulated
Retained functions	Diagnostics, processor real-time clock and FTE IP addresses

Technical 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.

What information does FC-BKM-0001 V1.1 help retain during power loss?

The backup supports diagnostics, the processor real-time clock and FTE IP addresses.

What backup duration is specified for the design of FC-BKM-0001 V1.1?

Approximately three months of accumulated backup time is specified. Battery age, condition and prior discharge must be considered.

03 / Installation and connection 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.

Installation context

The Reset key affects both Control Processor watchdogs and moves actual diagnostics into historical diagnostics. Force Enable OFF prevents forcing and removes active forces; ON permits software-controlled forcing. Removing the BKM removes active forces, so set Force Enable OFF before extraction and assess the resulting field behavior. The module indicator reports power-down, battery-related faults or normal operation.

What does the Reset key on FC-BKM-0001 V1.1 do?

It resets both Control Processor watchdogs and moves actual diagnostics to historical diagnostics.

What does Force Enable OFF mean on FC-BKM-0001 V1.1?

It prevents forcing and removes active forces. The resulting application behavior must be assessed before changing the key position.

04 / Functional acceptance planning

Application	Controlled review
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.

What happens to active forces when FC-BKM-0001 V1.1 is removed?

Removing the BKM removes active forces. Set Force Enable OFF and follow the controlled service procedure before extraction.

Does the V1.1 marking on FC-BKM-0001 V1.1 establish system approval by itself?

No. Preserve the exact hardware marking and confirm it against the installed controller and approval configuration; a document revision alone does not establish unit approval.

Release boundary

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

Record
Keep the original configuration

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Test
Observe controlled response

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Release
Authorize normal operation

05 / Technical handover and support

Retained information

Keep the complete FC-BKM-0001 V1.1 marking, host identity, connection photographs, configuration backup and controlled-test results in the service record.

Support planning

Confirm current support and replacement guidance with Honeywell for the installed identity and configuration. Apter Power availability and dispatch are separate quotation matters.

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-PSU-UNI2450U V1.0

Honeywell FC-QPP-0002 V1.2

Honeywell FC-TELD-0001

Discuss your installed configuration

Send the full unit marking and connection details.

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