

INTKM01

Harmony Time Keeper Master Module

ABB INTKM01 is a Harmony Time Keeper Master module. It receives an external IRIG-B reference and distributes synchronized time to the sequence-of-events system.

PRODUCT SNAPSHOT

BRAND

ABB

FAMILY

ABB Harmony Sequence of Events system

PART

INTKM01

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PRODUCT OVERVIEW

ABB INTKM01 is a Harmony Time Keeper Master module. It receives an external IRIG-B reference and distributes synchronized time to the sequence-of-events system.

1

Accepts the plant reference time for the Harmony sequence-of-events system

2

Supplies synchronized time to the INSEM01 sequence-of-events master module

3

Distributes absolute time over the RS-485 synchronization link

4

Connects the external receiver through the NTST01 termination unit

SYSTEM COMPONENTS

INSOE01 server node

INNIS11 network interface

INSEM01 SOE master

NTST01 termination unit

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
SDCS-PIN-H51	DCS drive power-interface board	Open product page
3BSE004725R1-DSTD196	S100 connection unit	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Module type	Time Keeper Master
Server node	INSOE01
Companion modules	INNIS11 + INSEM01

PARAMETER	VALUE
External time input	IRIG-B
Time-distribution interface	RS-485
Termination unit	NTST01

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	INSOE01 server node
Companion hardware	INNIS11 network interface
Field connection	INSEM01 SOE master
Primary system function	Accepts the plant reference time for the Harmony sequence-of-events system
Controlled acceptance duty	Plant sequence-of-events synchronization

TECHNICAL NOTE

Connect INTKM01 to the designated NTST01 time-input path, preserve RS-485 polarity and shielding, and confirm synchronized event timestamps across the server node before accepting the installation.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Plant sequence-of-events synchronization

Accepts the plant reference time for the Harmony sequence-of-events system

Boiler and turbine trip chronology

Supplies synchronized time to the INSEM01 sequence-of-events master module

Substation event time alignment

Distributes absolute time over the RS-485 synchronization link

Distributed Harmony alarm analysis

Connects the external receiver through the NTST01 termination unit

PRODUCT PRECAUTIONS

- 1 Verify INTKM01 and the INSOE01 server-node assignment before removal.
- 2 Preserve the active time source and place event collection in the approved maintenance state.
- 3 Record IRIG-B, RS-485, and termination-unit conductor identities before disconnection.
- 4 Use ESD controls when handling the module and backplane connectors.
- 5 Confirm the installed INNIS11 and INSEM01 companion-module arrangement.
- 6 Restore the external receiver connection through the assigned NTST01 unit.
- 7 Compare distributed time with the plant reference after startup.
- 8 Prove event ordering and timestamp consistency with a controlled SOE test.

ENGINEER FAQ

Q1 What isolation is required before installing INTKM01?

Place plant sequence-of-events synchronization in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

Q2 Which configuration check is essential when commissioning INTKM01?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.

Q3 How can an engineer function-test INTKM01 after installation?

Apply a controlled input, reference, or limited output appropriate to harmony time keeper master module, observe the system indication and diagnostics, and confirm the intended process response.

Q4 What should be checked if INTKM01 reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

Q5 Can INTKM01 be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q6 What commissioning evidence should be retained for INTKM01?

Retain the full INTKM01 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q7 Which installed hardware must be matched before fitting INTKM01?

Match the complete INTKM01 marking to INSOE01 server node and INNIS11 network interface, then confirm the assigned ABB Harmony Sequence of Events system position and approved system configuration.

Q8 How should the field connections for INTKM01 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting INTKM01.