

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB Harmony Sequence of Events system
Part number	INTKM01
Country	Sweden
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named ABB product record.

PARAMETER	TECHNICAL VALUE
Module type	Time Keeper Master
Server node	INSOE01
Companion modules	INNIS11 + INSEM01
External time input	IRIG-B
Time-distribution interface	RS-485
Termination unit	NTST01

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED 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

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System Role and Architecture

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.

FUNCTION 1

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

FUNCTION 2

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

FUNCTION 3

Distributes absolute time over the RS-485 synchronization link

FUNCTION 4

Connects the external receiver through the NTST01 termination unit

Matched system components

- INSOE01 server node
- INNIS11 network interface
- INSEM01 SOE master
- NTST01 termination unit

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
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

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	INTKM01 / INTKM01 recorded
Physical interface	INSOE01 server node
Companion check	INNIS11 network interface
Functional proof	Accepts the plant reference time for the Harmony sequence-of-events system
Application test	Plant sequence-of-events synchronization

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

Harmony Sequence of Events Data Sheet
WBPEEUD240008A2

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