

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMSET01

Product Reference

ABB IMSET01 Sequence of Events Timing module

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB IMSET01
Reference number	IMSET01
Document basis	Published ABB product records, PDFs, and manuals listed on page 3

**Product page**

<https://www.apterpower.com/ABB/imset01>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB IMSET01 is a Harmony Sequence of Events Timing module. The Harmony controller uses function code 241 to interface SOE data from IMSET01 to INSEM01 and function code 242 to configure and access the module's input channels. System context: ABB IMSET01 Sequence of Events Timing module.

Published field	Manufacturer-published value or verified identity note
Digital field inputs	Up to 16
Time-synchronization function	Receives and decodes time-synchronization-link information from INTKM01
Input channel isolation	Each channel optically isolated
Individually programmable input selections	24 VDC $\pm 10\%$; 48 VDC $\pm 10\%$; 125 VDC $\pm 10\%$; 120 VAC $\pm 10\%$
SOE data interface	Function code 241 interfaces IMSET01 SOE data to INSEM01
Digital event channel interface	Function code 242 configures and accesses IMSET01 input channels
Controller communication path	Harmony I/O expander bus

System function and signal path

01

Held Claims: No timestamp resolution, link distance, event-buffer capacity, or input current is published because exact ABB evidence for those fields was not located.

Applications, answers, and official sources

- 1 Time-referenced SOE acquisition: Provide the timing-link endpoint and as many as 16 digital event inputs on a Harmony I/O expander bus segment in the documented INTKM01/IMSET01/controller architecture.
- 2 Controller event chronology: Interface SOE data through function code 241 and configure digital event channels through function code 242 where the site's Harmony configuration uses INSEM01.
- 3 Mixed IMSET01 and IMSED01 event segments: Use the single IMSET01 timing role with additional IMSED01 input modules, remaining within ABB's one-IMSET01-per-segment rule.
- 4 Maintenance of installed Harmony SOE systems: Identify an exact IMSET01 replacement position only after confirming INTKM01, NTST01, NTDI01 or approved termination topology, bus address, controller function blocks, and current service status.

Frequently asked questions

What is ABB IMSET01?	It is an ABB Harmony Sequence of Events Timing module that processes up to 16 digital field inputs and decodes time-synchronization-link information from INTKM01.
How many event inputs does IMSET01 support?	ABB specifies up to 16 digital field inputs.
What is IMSET01's timing role?	It receives and decodes time-synchronization-link information sent by INTKM01 for a Harmony controller.
Which function codes are associated with IMSET01?	ABB identifies function code 241 for the DSOE data interface toward INSEM01 and function code 242 for configuring and accessing the digital event channels.
How many IMSET01 modules are allowed on one bus segment?	Only one IMSET01 can operate on an I/O expander bus segment.
Can IMSED01 replace IMSET01?	No such replacement is proven. IMSED01 does not process the time-synchronization link and is a distinct complementary module.

Official ABB sources

Harmony Sequence of Events Data Sheet, IMSED01 and IMSET01	https://library.e.abb.com/public/9c60a0e5592c0245c1256d2f006010e7/WBPEEUD240008A2_-_en_Harmony_Sequence_of_Events_Data_Sheet.pdf
Harmony Rack I/O Product Overview	https://library.e.abb.com/public/429d55ddf7c18f3ec1256c95006f67bc/WBPEEUS240011B1_-_en_Harmony_Rack_I_O_Product_Overview.pdf
Harmony Rack Mount Termination Devices Data Sheet	https://library.e.abb.com/public/970f33da260c82f5c1256d12005fbec0/WBPEEUD260001A1_-_en_Harmony_Rack_Mount_Termination_Devices_Data_Sheet.pdf
Symphony Plus Overview / Harmony Evolution Driver	https://library.e.abb.com/public/6accbfc76dbae885257a8c00660057/3BUS095666_Symphony_Plus_Overview.pdf
ABB Industrial Automation Spare Parts Triple Play Brochure	https://library.e.abb.com/public/ce7ff1c4bdac451085597330b9fba063/9AKK107046A2102%20C%20Triple%20Play%20brochure.pdf