

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMSED01

Product Reference

ABB IMSED01 Sequence of Events Digital Input module

DOCUMENT SCOPE

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

Product / lookup identity	ABB IMSED01
Reference number	IMSED01
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/imsed01>

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Product role and published parameters

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

ABB IMSED01 is a Harmony Sequence of Events Digital Input module. The module communicates with its Harmony controller over the I/O expander bus. System context: ABB IMSED01 Sequence of Events Digital Input module.

Published field	Manufacturer-published value or verified identity note
Digital field inputs	Up to 16
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 $\pm 10\%$
Controller interface function code	Function code 242, SOE digital event interface
Controller communication path	Harmony I/O expander bus
Maximum IMSED01 population per I/O expander bus segment	Up to 63 IMSED01 modules together with one IMSET01 module
Time-synchronization-link processing	Not supported by IMSED01

System function and signal path

01	Held Claims: No timestamp resolution, scan time, event-buffer size, or signal-current value is published because no exact ABB evidence for those fields was located.
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Applications, answers, and official sources

1 Digital event acquisition in Harmony rack I/O: Collect up to 16 supported digital field states for controller-based sequence-of-events processing where the installed voltage class and termination are verified against the ABB design.

2 Distributed SOE channel expansion: Add event-input capacity on an I/O expander bus segment under ABB's stated limit of up to 63 IMSED01 modules with one IMSET01 timing module.

3 Trip and interlock chronology inputs: Acquire optically isolated digital indications used in a site's event chronology, provided system engineering confirms the required timestamping architecture and field voltage selection.

4 Maintenance of installed Symphony Harmony systems: Identify and replace an exact IMSED01 position only after revision, termination, channel configuration, bus address, and lifecycle/service availability are checked.

Frequently asked questions

What is ABB IMSED01?	It is an ABB Harmony Sequence of Events Digital Input module that processes up to 16 digital field inputs for a Harmony controller.
How many inputs does IMSED01 process?	ABB specifies up to 16 digital field inputs.
Does IMSED01 decode the time-synchronization link?	No. ABB explicitly states that IMSED01 does not process time-synchronization-link information.
Is IMSED01 the same as IMSET01?	No. They are distinct complementary modules. IMSET01 performs the timing-link role; IMSED01 provides additional event-input channels without that role.
How many IMSED01 modules can be used on one I/O expander bus segment?	ABB states that up to 63 IMSED01 modules can operate on one segment along with one IMSET01 module.
Which input voltage selections are supported?	The ABB data sheet lists 24 VDC, 48 VDC, 125 VDC, and 120 VAC, each at $\pm 10\%$; 120 VAC is only for system control logic.

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/6accbfc76dbaee885257a8c00660057/3BUS095666_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