

IMFEC11

Analog Input Module — exact-model engineering reference

Exact identity

ABB IMFEC11 is a Harmony Rack analog input and FSK slave module for current-loop and voltage-input service. Its supported termination devices provide fifteen analog input channels and define whether loops are system powered or field powered.

System role

The termination-device choice defines supported signals and loop power. Do not transfer wiring between NTBMC2 and NTBMD2 without checking the documented channel and power arrangement.

FUNCTION 1

Receives fifteen analog channels through the supported termination device.

FUNCTION 2

Supports 4-20 mA current loops and point-to-point FSK service.

FUNCTION 3

Accepts documented differential-voltage ranges when paired with NTBMD2.

FUNCTION 4

Uses the Harmony I/O expander-bus architecture for module communication.

MANUFACTURER EVIDENCE BASIS

- ABB IMFEC11 product page
- ABB Harmony Rack I/O product overview
- ABB Harmony termination-device data sheet

External manufacturer URLs are intentionally omitted from this document.

Verified technical parameters

Manufacturer-supported facts for the complete exact model

Product family	Harmony Rack I/O
Function	Analog input / FSK slave
Analog inputs	15 through supported termination device
Current signal	4-20 mA
FSK service	Point-to-point with NTBMC2
Voltage ranges	-10 to +10, 1-5, 0-1, 0-5 or 0-10 VDC
NTBMC2 power method	System-powered current loops
NTBMD2 power method	Field-powered current or differential-voltage inputs
Communication path	Harmony I/O expander bus
Required check	Module and termination-device pairing

Parameters not supported by the cited exact-model manufacturer record are intentionally omitted.

Engineering applications

Four bounded uses derived from the documented signal and system role

Current-loop acquisition
Receives fifteen documented 4-20 mA process signals through a matched termination device.

FSK point-to-point service
Supports FSK communication through the NTBMC2 system-powered termination path.

Differential voltage inputs
Accepts the documented voltage ranges through an NTBMD2 field-powered arrangement.

Harmony Rack renewal
Restores a recorded IMFEC11 position while retaining the I/O expander-bus and field termination topology.

Configuration boundary
IMFEC11 supports 4-20 mA, FSK point-to-point and documented voltage-input ranges through the matched termination arrangement. Verify NTBMC2 or NTBMD2 identity, power method and channel map before replacement.

Acceptance boundary
Release the module only after every assigned channel passes engineering acceptance.

Model-specific technical questions

Eight distinct questions backed by the ABB source record

What is ABB IMFEC11?

IMFEC11 is a Harmony Rack analog input and FSK slave module.

How many analog inputs can ABB IMFEC11 serve?

The supported termination arrangements provide fifteen analog input channels.

Which current signal does ABB IMFEC11 support?

ABB documents 4-20 mA analog input service.

Does ABB IMFEC11 support FSK communication?

Yes. Point-to-point FSK service is documented with the NTBMC2 termination device.

Which voltage ranges are documented for ABB IMFEC11?

The documented ranges include -10 to +10, 1-5, 0-1, 0-5 and 0-10 VDC.

How does NTBMC2 power ABB IMFEC11 field loops?

NTBMC2 supports system-powered 4-20 mA current-loop and FSK point-to-point service.

How does NTBMD2 differ for ABB IMFEC11?

NTBMD2 supports field-powered 4-20 mA or differential-voltage inputs.

How should ABB IMFEC11 be accepted after replacement?

Verify the termination-device pairing, loop power and every assigned current, voltage or FSK channel with controlled tests.

Related ABB control-system pages

Verified public navigation links; not parameter evidence for this model

VERIFIED RELATED ABB PRODUCT PAGES

01	ABB BC810K01 3BSE031154R1 Open verified ApterPower page
02	ABB TB811 3BSE008568R1 Open verified ApterPower page
03	ABB CI857K01 3BSE018144R1 Open verified ApterPower page
04	ABB PM866K01 3BSE050198R1 Open verified ApterPower page
05	ABB CI854AK01 3BSE030220R1 Open verified ApterPower page
06	ABB CI830 3BSE013252R1 Open verified ApterPower page
07	ABB CI840A 3BSE041882R1 Open verified ApterPower page
08	ABB CI801 3BSE022366R1 Open verified ApterPower page

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