

IMFEC11

Analog Input Module — complete exact-model product record

Product 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.

Engineering 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.

CAPABILITY 1

Receives fifteen analog channels through the supported termination device.

CAPABILITY 2

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

CAPABILITY 3

Accepts documented differential-voltage ranges when paired with NTBMD2.

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.

CAPABILITY 4

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

Technical data matrix

Verified product parameters without trade or logistics data

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

Data discipline

Only exact-model manufacturer-supported parameters are included. Trade, logistics, weight and dimensional fields are intentionally excluded.

Applications and workflow

Four engineering uses paired with field-control steps

Current-loop acquisition

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

Exact identification

Confirm the exact IMFEC11 identity and its recorded Harmony rack position.

FSK point-to-point service

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

Maintenance state

Place all affected analog loops and process functions in the approved maintenance state.

Differential voltage inputs

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

Configuration capture

Record the termination device as NTBMC2 or NTBMD2 before disturbing field wiring.

Harmony Rack renewal

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

Independent acceptance

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

Questions and precautions

Model-specific support topics and release controls

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.

PRECAUTION 1

Confirm the exact IMFEC11 identity and its recorded Harmony rack position.

PRECAUTION 2

Place all affected analog loops and process functions in the approved maintenance state.

PRECAUTION 3

Record the termination device as NTBMC2 or NTBMD2 before disturbing field wiring.

PRECAUTION 4

Preserve all fifteen channel assignments, signal ranges and loop-power sources.

PRECAUTION 5

Do not treat a system-powered NTBMC2 loop as equivalent to a field-powered NTBMD2 circuit.

PRECAUTION 6

Retain the documented I/O expander-bus address and companion-module arrangement.

PRECAUTION 7

Check current, voltage or FSK behavior with controlled signals after restoration.

PRECAUTION 8

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

Sources, related products and contact

A traceable handoff for engineering review and procurement support

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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