

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

ABB P-HC-BRC-41000000

Symphony Plus Harmony Rack BRC410 Bridge Controller with Ethernet



CONTROLLER	PROCESSOR	ETHERNET	TEMPERATURE
BRC410	160 MHz, 32-bit	10/100 Mbps	0 to 70 deg C

Prepared from the manufacturer sources identified in this document. This Amikon reference does not replace current controlled ABB instructions.

01 CONFIRM PRODUCT IDENTITY

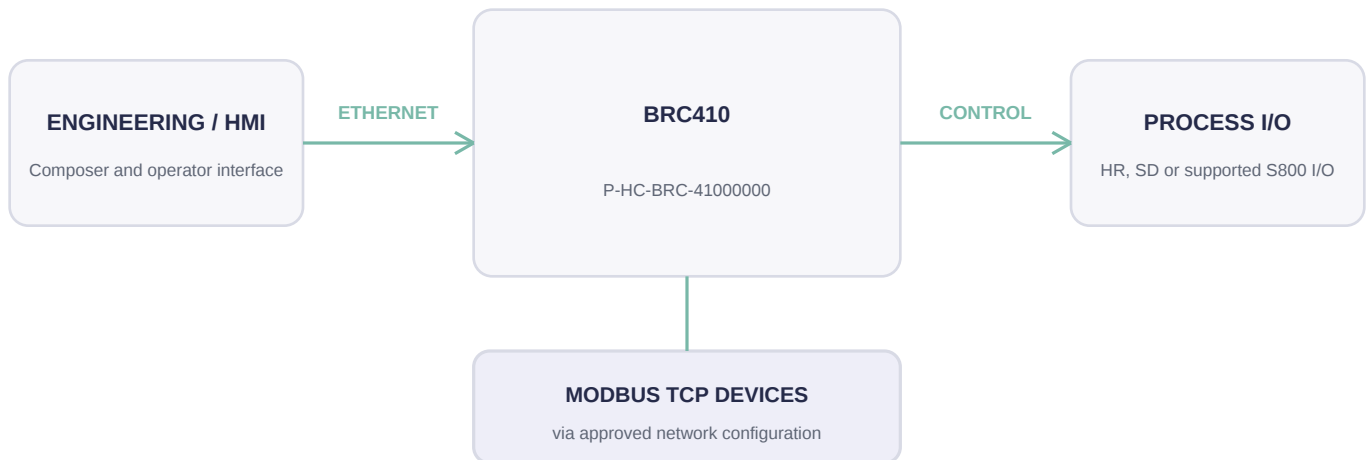
Product model	P-HC-BRC-41000000
Official product name	Bridge Controller with Ethernet
Controller type	BRC410
Product family	Symphony Plus Harmony Rack HR Series
Processor	160 MHz, 32-bit Freescale ColdFire
Dynamic memory	8 MB DRAM

02 INSTALLATION CONTROLS

- Confirm the complete order number P-HC-BRC-41000000 and controller firmware before installation.
- Verify the target Harmony Rack, SD Series or S800 I/O architecture against current ABB documentation.
- Check Composer and Harmony Gateway compatibility before configuration or online changes.
- Review PCU communications loading before adding a high-point-count BRC410 configuration.
- For Modbus TCP use, confirm the Ethernet network, licensed gateway functions and approved point allocation.

CONNECTION REFERENCE

Functional system reference based on the manufacturer documentation; not a wiring drawing.



Ethernet	10/100 Mbps engineering, HMI and Modbus TCP integration
Process I/O	Supported Harmony Rack, SD Series and S800 arrangements
Configuration	Verify firmware, Composer, gateway license and network loading

Source reference: 2VAA000720R0001 / 2VAA005093 / 2VAA002585-600. Use the current controlled ABB instructions for final installation.

04 PRE-ENERGIZATION CHECKS

- 01 Confirm the complete product marking and exact order number.
- 02 Verify the approved controller system, firmware and cabinet arrangement.
- 03 Check power, network and process-I/O connections against current ABB instructions.
- 04 Confirm module seating, wiring integrity and required communication loading.
- 05 Verify configuration, database or control-program data before service.
- 06 Retain the current ABB document and commissioning record with the machine file.

05 OFFICIAL DOCUMENTATION

[ABB Symphony Plus HR Series brochure - 2VAA005093](#)

[ABB related-document index - 2VAA002585-600](#)

06 SCOPE REMINDER

These instructions are a concise product-specific reference. They do not replace system engineering, current ABB installation instructions, site approval or qualified installation practice.

AMIKON PRODUCT SUPPORT

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