

1762-IR4

MicroLogix 1200 RTD/Resistance Input Module

PUBLISHED IDENTITY

Allen-Bradley 1762-IR4 is a four-channel MicroLogix 1200 expansion module for RTD and direct resistance measurements. Each channel uses selectable 0.5 mA or 1.0 mA excitation within the configured input mode.

Technical snapshot

Product family	MicroLogix 1200 Bulletin 1762
Module role	RTD and resistance input expansion module
Input channels	4
Excitation current	0.5 mA or 1.0 mA selectable per channel
A/D conversion	Delta-sigma
Input impedance	Greater than 10 MΩ
Bus current	50 mA maximum at 24 V DC
Open-circuit detection	6 ms

Verified related ApterPower product pages

[Allen-Bradley 2711P-RN15S](#)

[Allen-Bradley 1762-L40BWA](#)

Engineering data

Official evidence organized for exact-model review

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Module role	RTD and resistance input expansion module
Input channels	4
Excitation current	0.5 mA or 1.0 mA selectable per channel
A/D conversion	Delta-sigma
Input impedance	Greater than 10 MΩ

Bus current	50 mA maximum at 24 V DC
Open-circuit detection	6 ms
Common-mode rejection	Greater than 110 dB at 60 Hz with the 10 or 60 Hz filter
Autocalibration	On channel enable or configuration change; optional every 5 minutes
Connection	Screw terminals
Operating temperature	0 to 55 °C

EVIDENCE BOUNDARY

Confirm the full 1762-IR4 identity and all four channel configurations before moving the removable terminal block or applying excitation current.

Applications and system role

Four distinct documented operating contexts

RTD TEMPERATURE MEASUREMENT

Acquires four configured RTD channels for the MicroLogix control program.

DIRECT RESISTANCE SENSING

Measures compatible resistance inputs under the selected excitation setting.

COMPACT PROCESS MONITORING

Adds temperature and resistance channels to a Bulletin 1762 expansion system.

CONTROLLED ANALOG REPLACEMENT

Restores saved sensor, wiring, filter and scaling data after module exchange.

Integration control

Record each channel's sensor type, wiring method, excitation current, filter and engineering-unit configuration before replacement. Keep low-level RTD conductors segregated from noise sources and preserve shield and grounding practice. After commissioning, compare every channel with a traceable reference and confirm open-circuit diagnostics, raw data and scaled temperature or resistance values.

Verified related ApterPower product pages

[ABB DSBC174 3BSE012211R1](#)

[Allen-Bradley 2711P-B15C22D9P](#)

Technical questions

Complete model-specific answers from the approved evidence set

What role does Allen-Bradley 1762-IR4 perform?

Allen-Bradley 1762-IR4 performs the documented role of a micrologix 1200 rtd/resistance input module within its approved system architecture.

How does the documentation identify excitation current for 1762-IR4?

Documentation identifies excitation current for 1762-IR4 as 0.5 mA or 1.0 mA selectable per channel.

Where does 1762-IR4 fit in the published system?

Within the published architecture, 1762-IR4 functions as the micrologix 1200 rtd/resistance input module described for the installed equipment.

When 1762-IR4 is replaced, what must technicians verify?

Technicians must verify the installed input impedance, mating hardware, wiring and approved configuration before energization.

What published value is associated with input channels on 1762-IR4?

The published input channels for 1762-IR4 is 4.

Which value should be checked for a/d conversion when servicing 1762-IR4?

Service personnel should check a/d conversion against the documented value of Delta-sigma.

Why must the complete 1762-IR4 marking be recorded?

Recording the complete marking prevents a different suffix, rating or hardware configuration from being substituted during maintenance.

Which acceptance check completes work on 1762-IR4?

Commissioning is complete only after identity, wiring, diagnostics and every affected operating function have passed the approved checks.

Product precautions

Eight aligned controls before return to service

1

Record the 1762-IR4 marking, slot and four channel configurations.

2

Place the process and controller in the approved maintenance state.

3

Isolate controller power before moving the module or terminal block.

4

Identify each sensor type, wiring method and excitation-current setting.

5

Inspect low-level conductors, shields, grounds and terminal tightness.

6

Restore the saved filter, data format and engineering-unit configuration.

7

Check open-circuit diagnostics and raw channel data after power-up.

8

Compare all four measurements with a traceable reference before release.

Verified related ApterPower product pages

[Allen-Bradley 2711P-B7C4D1/A](#)

[Allen-Bradley 2711P-RDK10C](#)

[Allen-Bradley 2711P-T12C4A8](#)

[Allen-Bradley 2711P-K12C4A8](#)

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- Rockwell Automation 1762-IR4 RTD/Resistance Input Module installation instructions, publication 1762-IN014.
- Rockwell Automation exact product record for 1762-IR4.
- Rockwell Automation MicroLogix 1200 analog input specifications.

Verified related ApterPower product pages

Allen-Bradley 2711P-T10C4D1

Allen-Bradley 2711P-K10C4D8

Allen-Bradley 2711P-RDT12H

ABB DI811 3BSE008552R1

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ABB SR511 3BSE000863R1

ABB 07DI92

ABB 07KT92 GJR5250500R0902