

FLEX I/O ANALOG SYSTEM

Product Data Sheet

1794-IE8

Eight-channel analog input module

FUNCTION Eight-channel analog input module	FAMILY FLEX I/O analog system	ORIGIN Singapore	WEIGHT 0.1 kg
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Allen-Bradley 1794-IE8 is a Eight-channel analog input module for the FLEX I/O analog system. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Input Channels	8 single-ended nonisolated inputs
Selectable Current Ranges	4–20 mA or 0–20 mA
Selectable Voltage Ranges	±10 V or 0–10 V
Current Resolution	5.13 µA per count
Voltage Resolution	2.56 mV unipolar; 5.13 mV bipolar
Data Format	16-bit two's complement, left justified
Conversion Method	Successive approximation
Full-Channel Conversion	256 µs for all channels
Voltage Input Impedance	100 kΩ nominal
Current Input Impedance	238 Ω nominal

ADDITIONAL PRODUCT DATA

Absolute Accuracy	0.20% full scale at 25 °C
Voltage Step Response	9.4 ms to 63%
Current Step Response	18.2 ms to 63%
Maximum Single-Channel Overload	30 V or 32 mA continuous
External Power Range	10.5–31.2 V DC with ripple

OFFICIAL APPLICATIONS

- Acquire current-loop measurements: Connect eight pressure, flow, level or temperature transmitters using the configured 4–20 mA or 0–20 mA input range.
- Read machine analog voltage signals: Configure 0–10 V or bipolar ± 10 V channels for condition, position or reference signals from industrial equipment.
- Place analog acquisition near field devices: Install the module on a compatible FLEX I/O terminal base to reduce long home-run wiring while preserving controller scaling.

SYSTEM COMPATIBILITY

Match 1794-IE8 to the installed FLEX I/O analog system, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

FLEX I/O High-Density Analog Modules User Manual, publication 1794-UM062

https://literature.rockwellautomation.com/idc/groups/literature/documents/um/1794-um062_-en-p.pdf

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