

ALLEN-BRADLEY FLEX EX I/O

Product Data Sheet

1797-IRT8

eight-channel thermocouple and RTD input module

FUNCTION	FAMILY	ORIGIN	WEIGHT
eight-channel thermocouple and RTD in	Allen-Bradley FLEX Ex I/O	United States	0.20 kg

Allen-Bradley FLEX I/O 1797-IRT8 is a eight-channel thermocouple and RTD input module for the Allen-Bradley FLEX Ex I/O. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	1797-IRT8
Product Class	Eight-Channel Thermocouple And Rtd Input Module
Product Family	Allen-Bradley FLEX Ex I/O
Input Channels	8
Sensor Types	Thermocouple and RTD
A/D Resolution	16 bit
Update Time	640 ms maximum
Backplane Supply	5 V DC
Field Supply	24 V DC intrinsically safe
Isolation	Channel group to bus

ADDITIONAL PRODUCT DATA

Terminal Base	1797-TB3 class
Temperature Units	°C or °F
Diagnostics	Open-wire and overrange

OFFICIAL APPLICATIONS

- Integrate boiler feedwater with Eight Channel: As part of the feed pumps and drum-level loops, 1797-IRT8 serves its documented function as a eight-channel thermocouple and RTD input module. During protective transfer, the system uses this function to balance flow demand with process inventory, helping it preserve the steam-water balance.
- Supervise raw-water pumping with Eight Channel: During operation of the intake pumps and wet wells, 1797-IRT8 operates in its approved product-family role as a eight-channel thermocouple and RTD input module. During peak-flow demand, the system uses this function to coordinate pump duty and level response, helping it maintain hydraulic continuity.
- Control utility distribution with Eight Channel: During operation of the steam, cooling and instrument-air headers, 1797-IRT8 operates in its approved product-family role as a eight-channel thermocouple and RTD input module. During utility constraint, the system uses this function to prioritize process users from measured demand, helping it protect production continuity during the constraint.

SYSTEM COMPATIBILITY

Match 1797-IRT8 to the installed Allen-Bradley FLEX Ex I/O, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Allen-Bradley official product documentation and manufacturer catalog](#)

AMIKON PRODUCT SUPPORT

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