

FLEX EX

Product Data Sheet

1797-IE8H

Eight Channel HART Analog Input Module

ANALOG INPUT COUNT	CONVERSION RESOLUTION	ACCURACY AT 20 DEG C	TEMPERATURE DRIFT
8 single-ended, non-isolated channels	16 bits	0.1% of signal range	0.05% of signal range per deg C

Allen-Bradley 1797-IE8H is an eight-channel analog input module with HART support for the FLEX Ex intrinsically safe I/O system. It connects compatible current-loop instrumentation to the distributed control platform in hazardous-area process applications.

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VERIFIED TECHNICAL DATA

Analog input count	8 single-ended, non-isolated channels
Conversion resolution	16 bits
Accuracy at 20 deg C	0.1% of signal range
Temperature drift	0.05% of signal range per deg C
Step response to 99% full scale	80 ms
Field-side power consumption	7.1 W
Power dissipation	3.9 W
HART communication	Supported
Module key switch position	8
Compatible terminal bases	1797-TB3 / 1797-TB3S

ADDITIONAL PRODUCT DATA

Operating ambient temperature	-20 to +70 deg C
Storage ambient temperature	-40 to +85 deg C
Relative humidity	5 to 95%, non-condensing
Shock resistance	15 g peak, 11 +1 ms pulse
Vibration resistance	2 g at 10 to 500 Hz

DOCUMENTED USE SETTINGS

Chemical Production and Process Manufacturing: Industrial Chemical Production.

Oil Refining and Natural Gas Processing: Petroleum Refining and Processing.

Pharmaceutical Manufacturing and Biopharmaceutical Production: Pharmaceutical Ingredient Manufacturing.

SYSTEM COMPATIBILITY

1797-IE8H operates with a compatible FLEX Ex adapter and 1797-TB3 or TB3S terminal base. Set the documented key position 8 and assign its eight inputs using the module-specific wiring map.

PRODUCT EVIDENCE

Rockwell 1797-IN005J-EN-P, August 2017, selected pages 3, 40, 41, 42