HIQUAD H41Q/H51Q

Product Data Sheet

F6214

Safety-related analog input module

ANALOG CHANNELS	RESOLUTION	TRANSMITTER CURRENT SIGNAL	VOLTAGE INPUT OPTIONS
4	**12 bits**	**4-20 mA, two-wire**	**0-1 V / 0-5 V / 0-10 V with matching connection**

HIMA F6214 is a four-channel safety-related analog input module for HIQuad H41q/H51q equipment. It acquires current or voltage signals with 12-bit conversion and provides transmitter supply for supported two-wire 4-20 mA circuits.

01 TECHNICAL DATA

Analog channels	4
Resolution	12 bits
Transmitter current signal	4-20 mA, two-wire
Voltage input options	0-1 V / 0-5 V / 0-10 V with matching connection
Internal input span	0-1.06 V
Input resistance	1 MOhm
Input filter time constant	Approximately 10 ms
Transmitter supply	20-25 V; 0-22 mA
Short-circuit current	25 mA
Maximum load impedance	900 Ohm

HIMA F 6214 overview data sheets, revision 9912, pages 1-6; cross-checked document reproduction.

02 ADDITIONAL PRODUCT DATA

Scan time	100 ms maximum for all four channels
Basic error	0.2% at 25 C
Operating error	0.3% from 0 to +60 C
Electric strength	250 V against GND
Operating current	150 mA at 5 V DC; 250 mA at 24 V DC

03 PRODUCT FUNCTION

The input circuitry has a 0-1.06 V internal span and a nominal 1 MOhm resistance. Current inputs use the specified 50 Ohm shunt, while 5 V or 10 V signals require the corresponding front-connector configuration. The module scans all four channels within 100 ms and automatically checks conversion linearity, channel crosstalk, input filtering and transmitter supply.

04 SYSTEM COMPATIBILITY

The four channels use a 12-bit converter with a 0-1.06 V internal span. The specified current shunt is 50 Ohm, 0.05%, 0.125 W, with temperature coefficient below 10 ppm/K. Transmitter supply is 20-25 V at up to 22 mA, with a 25 mA short-circuit current and a 900 Ohm maximum load. Budget the 5 V and 24 V operating currents separately in the rack.

05 REFERENCE

HIMA F 6214 overview data sheets, revision 9912, pages 1-6; cross-checked document reproduction.

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