CENTUM CS / CENTUM VP FIO

Product Data Sheet

AAI841-H00 S2

Analog current I/O module

I/O CHANNEL COUNT	INPUT SIGNAL	OUTPUT SIGNAL	ALLOWABLE INPUT CURRENT
8 inputs and 8 outputs, non-isolated	**4-20 mA**	**4-20 mA**	**25 mA**

Yokogawa AAI841-H00 S2 is a non-isolated analog current I/O module for CENTUM FIO arrangements. It combines eight 4-20 mA inputs with eight 4-20 mA outputs, supporting up to eight loops and a documented dual-redundant configuration.

01 TECHNICAL DATA

I/O channel count	8 inputs and 8 outputs, non-isolated
Input signal	4-20 mA
Output signal	4-20 mA
Allowable input current	25 mA
Input resistance, power on	400 ohm at 20 mA to 1000 ohm at 4 mA
Input resistance, power off	500 kohm minimum
Output load resistance	0-750 ohm; 200-750 ohm for the specified 60-70 C remote-node condition
Output circuit-open detection	Below 0.65 mA
Input accuracy	+/-16 uA
Output accuracy	+/-48 uA

Yokogawa GS 33Q06Q40-31E, pp. 1-2 and 17.

02 ADDITIONAL PRODUCT DATA

Data update period	10 ms
Input step response	100 ms
Output step response	40 ms
Maximum supply current	310 mA at 5 V DC; 500 mA at 24 V DC
HART condition	-H variant; CENTUM CS 3000 R3.02 or later; remote-node EB401 Rev. 2 or later

03 PRODUCT FUNCTION

The -H variant supports HART communication subject to the installed CENTUM release and node arrangement. The I/O data update period is 10 ms, with 100 ms input and 40 ms output step response. Input and output accuracy are specified separately at +/-16 uA and +/-48 uA.

04 SYSTEM COMPATIBILITY

Keep current signals within the 4-20 mA nominal range and observe the 25 mA allowable input limit. Output loading is normally 0-750 ohm, with a 200-750 ohm condition in the specified 60-70 C remote-node environment.

05 REFERENCE

Yokogawa GS 33Q06Q40-31E, pp. 1-2 and 17.

AMIKON PRODUCT SUPPORT

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