CENTUM ANALOG FIO AAI835

Product Data Sheet

AAI835-S00 S2

Isolated analog input-output module

ANALOG INPUT CAPACITY	ANALOG OUTPUT CAPACITY	INPUT CURRENT SPAN	OUTPUT CURRENT SPAN
4 channels	**4 channels**	**4-20 mA**	**4-20 mA**

Yokogawa AAI835-S00 S2 is an isolated analog input/output module in the CENTUM FIO range. The AAI835 hardware provides four 4-20 mA input channels and four 4-20 mA output channels, with individual channel isolation. It combines incoming current-loop values and outgoing analog commands in one assembly.

01 TECHNICAL DATA

Analog input capacity	4 channels
Analog output capacity	4 channels
Input current span	4-20 mA
Output current span	4-20 mA
Channel separation	Each channel isolated
Isolation withstand	500 V AC for 1 minute; applicable connection conditions
Maximum input current	25 mA
Powered input impedance	290 ohm at 20 mA; 450 ohm at 4 mA
Unpowered input impedance	500 kohm or more
Output load resistance	0-750 ohm; temperature/node conditions apply

Yokogawa GS 33K50F60-50E, 4th Edition, December 2013; AAI835 common hardware specifications.

02 ADDITIONAL PRODUCT DATA

Input accuracy	+/-16 uA
Output accuracy	+/-48 uA
Data update period	10 ms
Transmitter supply capability	15 V minimum at 20 mA; 29.3 V maximum at 0 mA
Module supply demand	360 mA at 5 V DC and 450 mA at 24 V DC maximum

03 PRODUCT FUNCTION

The common AAI835 specification gives a 10 ms data update, input accuracy of +/-16 uA and output accuracy of +/-48 uA. Powered input impedance changes with loop current, while output loading is specified up to 750 ohm under the applicable temperature and node conditions. The S00 S2 identity is retained as supplied; unverified suffix-dependent options are not inferred from a neighboring execution.

04 SYSTEM COMPATIBILITY

Budget up to 360 mA at 5 V DC and 450 mA at 24 V DC. The input side provides at least 15 V to a transmitter at 20 mA, with a 29.3 V maximum at zero current. Check the complete loop voltage budget rather than treating the 290-450 ohm powered input impedance as a constant resistor; unpowered impedance is at least 500 kohm.

05 REFERENCE

Yokogawa GS 33K50F60-50E, 4th Edition, December 2013; AAI835 common hardware specifications.

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