PROSAFE-RS FIO

Product Data Sheet

SAI143-H63/PRP S3

HART analog input module

INPUT CHANNELS	RATED INPUT RANGE	PERMISSIBLE INPUT RANGE	RATED ACCURACY, S3
16	**4-20 mA**	**0-25 mA**	**+/-16 uA at 0.05-23 mA**

Yokogawa SAI143-H63/PRP S3 is a 16-channel current-input module for ProSafe-RS FIO safety I/O. It accepts 4-20 mA field signals, supports HART device access and can be used in the documented dual-redundant input arrangement.

01 VERIFIED TECHNICAL DATA

Input channels	16
Rated input range	4-20 mA
Permissible input range	0-25 mA
Rated accuracy, S3	+/-16 uA at 0.05-23 mA
Accuracy below 0.05 mA	+/-32 uA
Data update interval	40 ms
Temperature drift	+/-16 uA per 10 C
Power-off input impedance	500 kohm minimum
System current at 5 V	320 mA maximum
System current at 24 V	550 mA maximum

Source: SAI143-H63-PRP S3.pdf

02 ADDITIONAL PRODUCT DATA

HART transmission rate	1200 +/-2 bit/s
HART modem count	1 per module
Operating temperature option	-20 to +70 C
Connection selection	Signal cable interface adapter
Insertion prevention	/PRP prevention pin

03 PRODUCT FUNCTION

The H63 selection combines HART capability, a signal-cable interface adapter and the ISA Standard G3 temperature option. Style S3 specifies the documented low-current accuracy range, while /PRP adds a prevention pin to reduce wrong-module insertion; the module updates input data every 40 ms.

04 SYSTEM COMPATIBILITY

Configure each channel for the required two-wire or four-wire input arrangement and keep the field signal within the rated 4-20 mA range. For Style S3, the stated accuracy is +/-16 uA from 0.05 to 23 mA, with a different limit below 0.05 mA.

05 MANUFACTURER SOURCE

Yokogawa official documentation: SAI143-H63-PRP S3.pdf. Selected source pages: 1, 6, 7, 9, 10.

AMIKON PRODUCT SUPPORT

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