

PROSAFE-RS FIO

Product Data Sheet

SAI143-S63

Analog Current Input Module

INPUT CHANNEL COUNT	RATED CURRENT INPUT RANGE	PERMISSIBLE CURRENT RANGE	RATED MEASUREMENT ACCURACY
16	4 to 20 mA	0 to 25 mA	±16 microA for 1 to 23 mA

Yokogawa SAI143-S63 is a analog current input module in the ProSafe-RS FIO range. It receives field current signals for the safety control or safety node unit. The standard input execution supports dual-redundant use in the documented ProSafe-RS arrangement.

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VERIFIED TECHNICAL DATA

Input channel count	16
Rated current input range	4 to 20 mA
Permissible current range	0 to 25 mA
Rated measurement accuracy	±16 microA for 1 to 23 mA
Measurement update interval	40 ms
Temperature drift	±16 microA per 10 deg C
Unpowered input impedance	500 kohm minimum
Transmitter voltage at 20 mA	16.15 V minimum
Transmitter voltage at zero load	26.4 V maximum
Transmitter current limit	25 mA

ADDITIONAL PRODUCT DATA

Two/four-wire selection	Individual channel pins
Input-to-system withstand	1.5 kV AC for 1 minute, connection dependent
Maximum 5 V system current	320 mA
Maximum 24 V system current	550 mA
Input protection voltage drop	0.45 V maximum

DOCUMENTED USE SETTINGS

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

Chemical Manufacturing and Petrochemical Production: Industrial Chemical Manufacturing.

Electric Power Generation and Energy Production: Thermal Power Generation.

SYSTEM COMPATIBILITY

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PRODUCT EVIDENCE

ProSafe-RS FIO manufacturer technical reference

AMIKON PRODUCT SUPPORT

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