

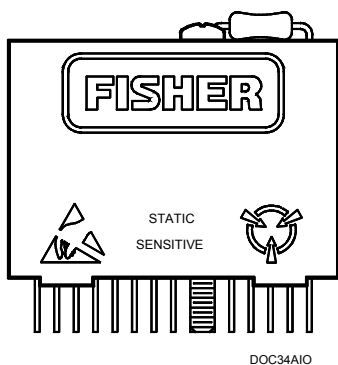
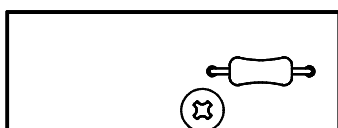
Analog Output Source Module

The Analog Output Source Module plugs into a ROC300-Series Remote Operations Controller or FloBoss™ 407 Flow Manager, and provides both a current output and a voltage output for powering analog devices. A scaling resistor is used for adjusting the range of the current output.

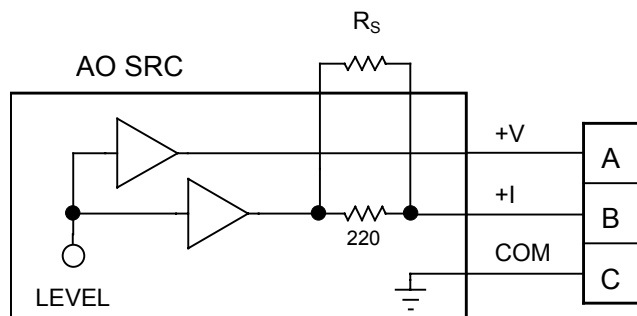
Field wiring connections are made through a separate terminal block, which plugs in next to the module. This design facilitates replacement of the module without disconnecting field wiring.

Specifications

FIELD WIRING TERMINALS	VOLTAGE OUTPUT (CONT'D)
A: Voltage Output B: Current Output C: Common VOLTAGE OUTPUT Type: Voltage source. Range: 1 to 5 Vdc with 0 to 5.25 Vdc overranging. 25 mA maximum.	Resolution: 12 bits. Accuracy: 0.1% of full-scale output (from 20 to 30°C). 0.5% of full-scale output (-40 to 65°C). Settling Time: 100 μseconds maximum. Reset Action: Output goes to zero percent output or last value (software configurable) on power-up (warm start) or on watchdog timeout.



Analog Output Module



Note: A zero-ohm resistor is supplied for R_s .

Simplified Output Schematic



Specifications (Cont'd)

CURRENT OUTPUT

Type: Current loop.

Range: 4 to 20 mA with 0 to 22 mA overranging, adjusted by scaling resistor. A 0-ohm resistor is supplied.

Loop Source: 11 to 30 Vdc, as supplied by ROC for "+T" power (typically 24 Vdc).

Loop Resistance at 12 Vdc: 0 ohms minimum, 250 ohms maximum.

Loop Resistance at 24 Vdc: 200 ohms minimum, 750 ohms maximum.

Resolution: 12 bits.

Accuracy: 0.1% of full-scale output (20 to 30°C). 0.5% of full-scale output (-40 to 65°C).

Settling Time: 100 microseconds maximum.

Reset Action: Output goes to zero percent output or last value (software configurable) on power-up (warm start) or on watchdog timeout.

POWER REQUIREMENTS

Module Alone: 24 mW typical.

Module w/Current Loop: 400 mW @ 4 mA output to 590 mW @ 20 mA output.

OUTPUT ISOLATION

Not isolated. Terminal C tied to power supply common.

VIBRATION

20 Gs peak or 0.06 in. double amplitude, 10 to 2,000 Hz, per MIL-STD-202, method 204, condition F.

MECHANICAL SHOCK

1500 Gs 0.5 ms half sine per MIL-STD-202, method 213, condition F.

WEIGHT

37 grams (1.3 ounces) typical.

CASE

Solvent-resistant thermoplastic polyester, meets UL94V-0. Dimensions are 15 mm D by 32 mm H by 43 mm W (0.6 in. D by 1.265 in. H by 1.69 in. W), not including pins.

ENVIRONMENTAL

Meets the Environmental specifications of the ROC or FloBoss in which the module is installed, including Temperature, Humidity, and Transient Protection.

APPROVALS

Approved by CSA for hazardous locations Class I, Division 2, Groups A, B, C, and D.

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