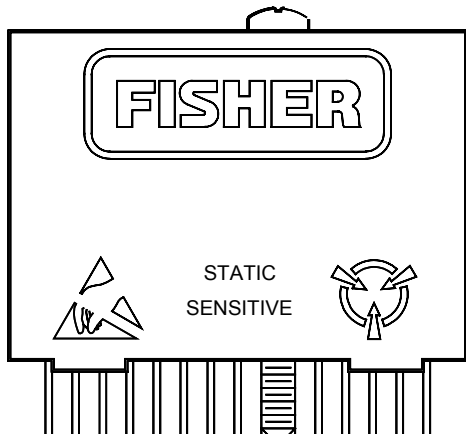
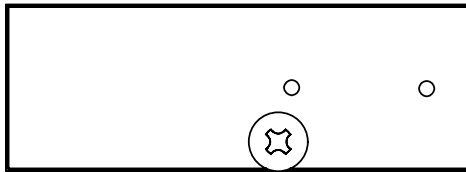


# Analog Input Source Module

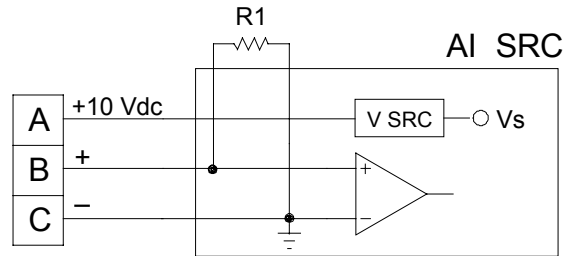
The Analog Input Source Module plugs into a Remote Operations Controller (ROC), or FloBoss™ 407 Flow Manager, and is used to monitor a single voltage output or current loop device. The module provides a 10 Volt dc source voltage for powering the field device. It can accept a scaling resistor for converting loop current to input voltage.

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.



DOC34AIS

Analog Input Source Module



DOC0071C

Note: Scaling resistor R1 is used only for a current loop device, which must be capable of operating on 10 Vdc and a maximum of 20 mA.

Simplified Input Schematic



**Specifications**

<p><b>FIELD WIRING TERMINALS</b>  <b>A:</b> 10 Vdc  <b>B:</b> Analog Input  <b>C:</b> Common</p> <p><b>INPUT</b>  <b>Type:</b> Single-ended, voltage sense; can be current loop if scaling resistor (not supplied) is used.  <b>Voltage:</b> 0 to 5 Vdc, software configurable.  <b>Resolution:</b> 12 bits.  <b>Accuracy:</b> 0.1% of full scale (20 to 30 °C); 0.5% of full scale (-40 to 65 °C).  <b>Impedance:</b> Greater than 400 kilo-ohms (without scaling resistor).  <b>Normal Mode Rejection:</b> 50 db @ 60 Hz.</p> <p><b>SOURCE POWER</b>          9.99 to 10.01 Vdc, 20 mA maximum.</p> <p><b>POWER REQUIREMENTS</b>          4.9 to 5.1 Vdc, 6 mA maximum; -4.5 to -5.5 Vdc, 2 mA maximum (all supplied by ROC).</p> <p><b>INPUT ISOLATION</b>          Not isolated. Terminal C is tied to power supply ground.</p> <p><b>SURGE WITHSTAND</b>          Meets IEEE 472 / ANSI C37.90a.</p> <p><b>FILTER</b>          Single pole, low-pass, 40 msec time constant.</p>	<p><b>CONVERSION TIME</b>          30 microseconds typical.</p> <p><b>VIBRATION</b>          20 Gs peak or 0.06 in. double amplitude, 10 to 2,000 Hz, per MIL-STD-202 method 204 condition F.</p> <p><b>MECHANICAL SHOCK</b>          1500 Gs 0.5 mS half sine per MIL-STD-202, method 213, condition F.</p> <p><b>CASE</b>          Solvent-resistant thermoplastic polyester, meets UL94V-0. Dimensions 0.6 in. D by 1.265 in. H by 1.690 in. W (15 mm by 32 mm by 43 mm), not including pins.</p> <p><b>ENVIRONMENTAL</b>          Meets the Environmental specifications of the ROC or FloBoss in which the module is installed, including Temperature, Humidity, and Transient Protection.</p> <p><b>WEIGHT</b>          1.3 ounces (37 grams).</p> <p><b>APPROVALS</b>          Approved by CSA for hazardous locations Class I, Division 2, Groups A, B, C, and D.</p>
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