

# FloBoss™ 107 6-Point Analog Output / Discrete Output Module

The 6-point analog output / discrete output (AO/DO) module for the FloBoss™ 107 Flow Manager (FB107) provides six single-ended analog outputs or field effect transistor (FET) switch discrete outputs. The I/O assembly mounts directly into the FB107 chassis. Use ROCLINK™ 800 Configuration Software to configure each individual channel.

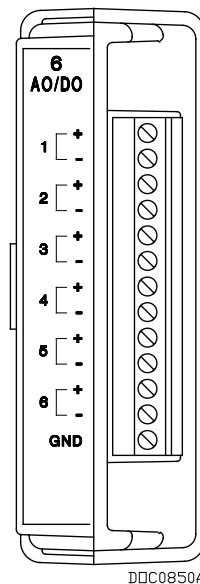
You can add an expansion rack to the FB107 to increase I/O by four slots to a total of six slots of I/O. The FB107 supports up to six I/O modules and one CPU I/O assembly.

You can install I/O modules in slots 1 through 3 on the main FB107 and in slots 4 through 6 on the expansion rack. When a non-I/O module is installed in slot 1, you can also install an I/O module in slot 7 of the expansion rack.

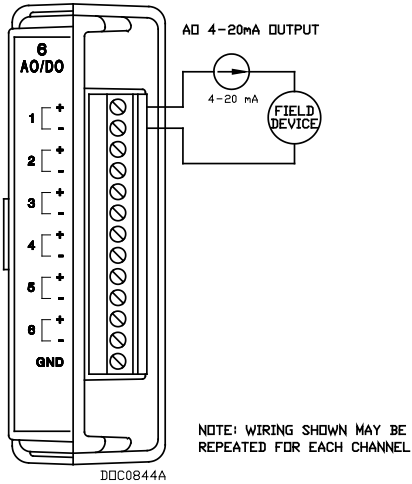
For each channel configured as an AO, the module provides 4 to 20 mA output at up to 24 Volts dc loop output power.

For each channel configured as a DO, the module provides FET switching of up to 30 V at 200 mA.

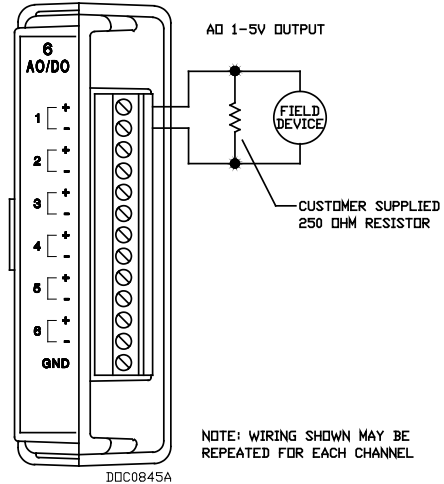
All modules have removable terminal blocks for convenient wiring and servicing. The terminal blocks can accommodate size 16 to 24 American Wire Gauge (AWG).



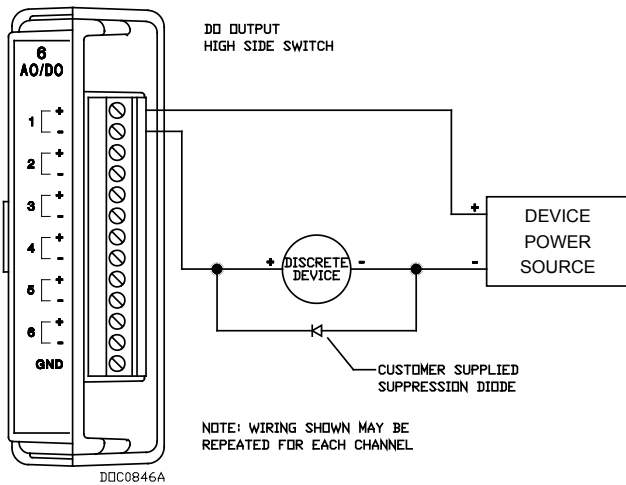
6-Point AO/DO Module



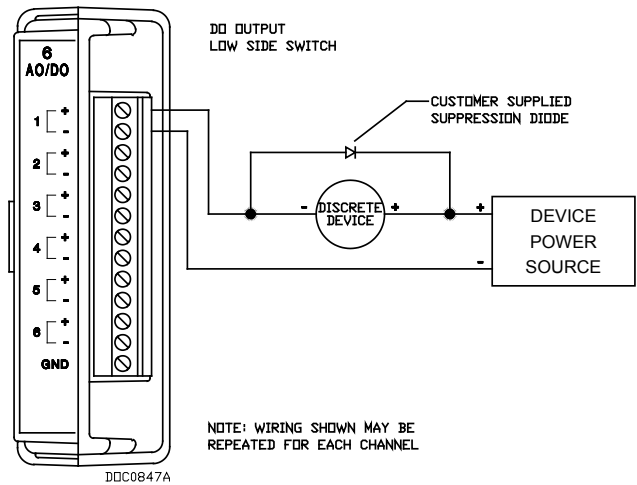
Analog Output 4-20 mA  
Wiring Diagram



Analog Output 1-5 V  
Wiring Diagram



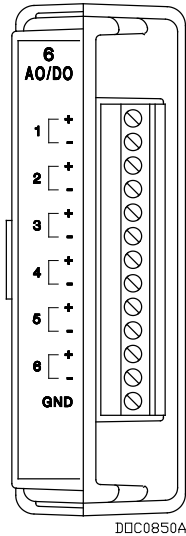
Discrete Output High Side Switch  
Wiring Diagram



Discrete Output Low Side Switch  
Wiring Diagram

## FloBoss 107 6-Point AO/DO Module

### Field Wiring Terminals



Terminal	Label	Definition
1	+	AO/DO 1 Positive
2	-	AO/DO 1 Negative
3	+	AO/DO 2 Positive
4	-	AO/DO 2 Negative
5	+	AO/DO 3 Positive
6	-	AO/DO 3 Negative
7	+	AO/DO 4 Positive
8	-	AO/DO 4 Negative
9	+	AO/DO 5 Positive
10	-	AO/DO 5 Negative
11	+	AO/DO 6 Positive
12	-	AO/DO 6 Negative
13	GND	Ground

### Analog Outputs

Type	High-side current source. 4 to 20 mA output at 24 Vdc loop power
Protection	Current limit protection on analog outputs. Surge protection on all I/O
Reference Accuracy <sup>1</sup> (after calibration) at 20°C (68°F)	±0.1%
Accuracy <sup>1</sup> Over Operating Temperature Range [-40 to 65°C (-40 to 149°F)]	±0.3%
Isolation	None
Filter	Single pole
Resolution	12 bits

### Discrete Outputs

Type	Field Effect Transistor
Contact Rating	30 Vdc at 200 mA
Isolation	50 V
Frequency	10 Hz maximum

### Power

Consumption	320 mW no load
Loop Output (per channel)	24 V dc at 25 mA

1. Includes: Linearity, Hysteresis, Repeatability, and Stability.

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**Physical**

Dimensions	82.55 mm H by 25.4 mm W by 127 mm L (3.25 in. H by 1.0 in. W by 5.0 in. L)
Weight	68 g (2.4 oz.)
Wiring	Size 16 to 24 AWG at the removable terminal block

**Environmental**

Same as the FB107 in which it is installed.

**Approvals**

Same as the FB107 in which it is installed.

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