

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.

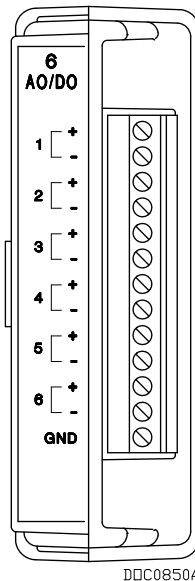
You can install I/O modules in slots 1 through 3 on the main FB107 and in slots 4 through 6 on the

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.

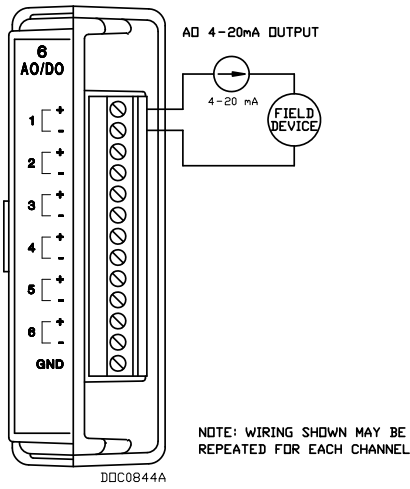
For each channel configured as an AO, the module provides 4 to 20 mA output at up to 24 Volts dc loop output power.

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

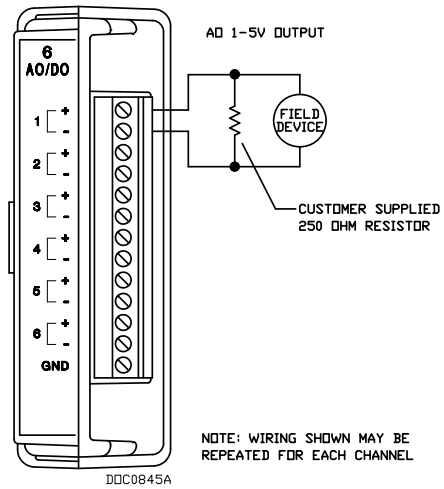
All modules have removable terminal blocks for convenient wiring and servicing. The terminal blocks can accommodate size 16 to 24 American Wire Gauge (AWG).



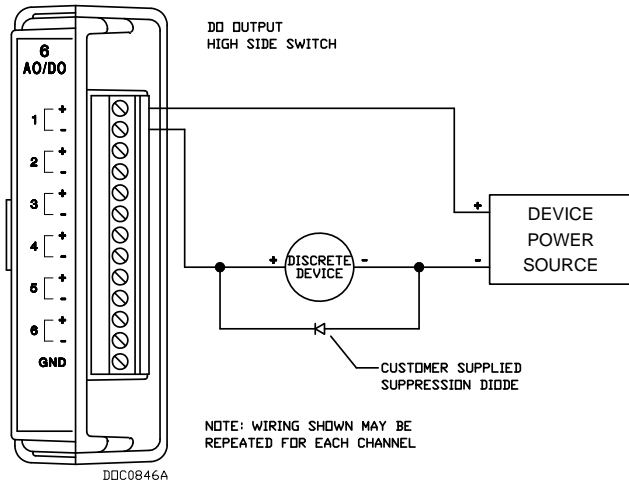
6-Point AO/DO Module



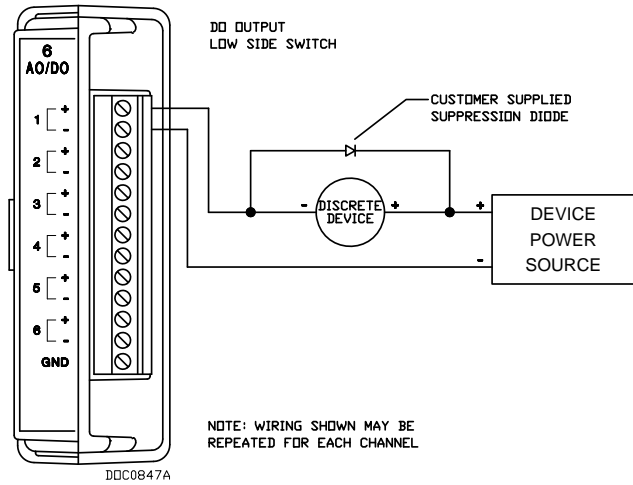
Analog Output 4-20 mA
Wiring Diagram



Analog Output 1-5 V
Wiring Diagram



Discrete Output High Side Switch
Wiring Diagram

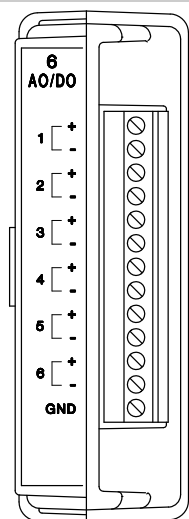


Discrete Output Low Side Switch
Wiring Diagram

Technical Specifications

FloBoss 107 6-Point AO/DO Module

Field Wiring Terminals



DOC0850A

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.
Protection	Current limit protection on analog outputs. Surge protection on all I/O.
Reference Accuracy ¹ (after calibration) at 20°C (68°F)	±0.1%.
Accuracy ¹ 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.
Sample Period	1.0 second minimum.

Power

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

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

Technical Specifications

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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