

## Analog output module

AO

M1-32A

6 analog outputs ( $\pm 10$  VDC), fully isolated

- ▶ 16-bit analog converter
- ▶ Optically and electrically isolated
  - Each channel has an electrically isolated analog ground
  - Each channel is individually optically isolated

### General specifications

Outputs per module	6
Output type	Voltage, $\pm 10$ VDC (single ended)
Analog ground type	Isolated from digital I/O, CPU power
Connector	Removable
Connection type	Screw terminal
Terminal wire size	14 – 22 AWG
Test point	All connections
Module size	1 controller bay

Bus power required (5 VDC)	.26 mA
Isolation rating	500 VDC
Operating temperature	
Horizontal installation <sup>1</sup>	0 – 50°C
Vertical installation <sup>1</sup>	0 – 45°C
Storage temperature	-25 – 85°C
Humidity	5 – 95% non-condensing
5100 equivalent part number	D

1. Refer to the applicable controller datasheet for proper mounting instructions.

### Performance specifications

Parameter	Value
Output range	-10 V to 10 V
Output resolution	16-bit
Full range calibration error <sup>1,2</sup>	0.025% of range
Offset calibration error at 0 V <sup>1,2</sup>	0.025% of range
Linearity error (full range) <sup>1,2</sup>	0.073% of range
Output slew rate	10V/ $\mu$ sec
Max output current	5 mA

1. Errors are at 25°C.
2. Errors are double across full ambient temperature range of 0 – 50°C.

