

## Allen-Bradley · ControlLogix

# 1756-OF4

## Four-Channel Voltage/Current Analog Output Module

## Product identity and technical data

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| Product family                | ControlLogix                                                    |
| Product type                  | Four-channel voltage/current analog output module               |
| Outputs                       | Four voltage or current outputs                                 |
| Output ranges                 | $\pm 10$ V; 0...20 mA                                           |
| Voltage resolution            | 15 bits across 10.5 V; 320 $\mu$ V/bit                          |
| Current resolution            | 16 bits across 21 mA; 325 nA/bit                                |
| Maximum current draw          | 200 mA at 5.1 V DC; 155 mA at 24 V DC                           |
| Maximum total backplane power | 4.74 W                                                          |
| Drive capability              | Voltage: greater than 2000 $\Omega$ ; current: 0...750 $\Omega$ |
| Settling time                 | Less than 2 ms to 95% of final value with resistive loads       |
| Calibrated accuracy           | Better than 0.05% of range from 0...21 mA and -10.4...10.4 V    |
| Module scan time              | 12 ms floating point; 8 ms integer                              |

## Documented role

1756-OF4 is an Allen-Bradley ControlLogix four-channel analog output module for voltage or current control signals.

The module supplies four non-isolated outputs selectable for  $\pm 10$  V or 0...20 mA, with scaling, calibration, ramping, clamping, program/fault states, and open-circuit detection for current output.

## Selection and installation checks

- Four channels can provide either  $\pm 10$  V voltage or 0...20 mA current outputs
- Voltage resolution is 320  $\mu$ V per bit and current resolution is 325 nA per bit
- Settling time is less than 2 ms to 95% of final value with resistive loads

1756-OF4 has no channel-to-channel isolation; match Series A, B, or C hardware and verify firmware, chassis Series, voltage/current mode, load impedance, RTB, shielding, scaling, ramp limits, and calibration records.