

Allen-Bradley 1756 Series Service Manual

1756-OF6CI

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-OF6CI
Series	ControlLogix
Module	Type Isolated Analog Output Module with current loop
Outputs	6-Point Isolated
Backplane	Current (5Volts) 250 milliamps
Backplane	Current (24 Volts) 300 milliamps
Power	Dissipation (Max) 4.9 Watts at 60 Celsius
Removable	Terminal Blocks 1756-TBNH, 1756-TBSH
Removeable	Terminal Block(s) 1756-TBNH, 1756-TBSH
Isolation	Voltage 50 Volts Continuous
Enclosure	None
UPC	10612598164650 Description
The	Allen-Bradley 1756-OF6CI module is a ControlLogix Series A general purpose isolated analog current/voltage output module. This module has 6 available individually-isolated current outputs. It also has a 13-bit resolution across 21 milliamps (2.7 μ A). It requires either the 1756-TBNH or 1756-TBSH removable terminal block housing (RTB) before it can be installed in a grounded and installed chassis.

3. Product Information

Mfr. Part Number:

1756-OF6CI

Manufacturer: Allen-Bradley / Rockwell Automation

Description: ControlLogix Isolated Analog Output, Current, 6 Points

Full Description: Allen-Bradley 1756-OF6CI ControlLogix Isolated Analog Output Module, Current, 6 Points (20 Pin) Allen Bradley ControlLogix Isolated Analog Output Module with current loop with 6-Point Isolated Outputs Technical specifications for 1756-OF6CI

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-OF6CI

Series ControlLogix

Module Type Isolated Analog Output Module with current loop

Outputs 6-Point Isolated

Backplane Current (5Volts) 250 milliamps

Backplane Current (24 Volts) 300 milliamps

Power Dissipation (Max) 4.9 Watts at 60 Celsius

Removable Terminal Blocks 1756-TBNH, 1756-TBSH

Removeable Terminal Block(s) 1756-TBNH, 1756-TBSH

Isolation Voltage 50 Volts Continuous

Enclosure None

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The Allen-Bradley 1756-OF6CI module is a ControlLogix Series A general purpose isolated analog current/voltage output module. This module has 6 available individually-isolated current outputs. It also has a 13-bit resolution across 21 milliamps (2.7 μ A). It requires either the 1756-TBNH or 1756-TBSH removable terminal block housing (RTB) before it can be installed in a grounded and installed chassis.

Communication format types available with the 1756-OF6CI module are the integer and floating point formats. Features of this analog output module include data echo, ramping/rate limiting, clamping/limiting, clamp/limit alarms, and hold for initialization. The programs the 1756-OF6CI's features.

It has a range of 0 to 20 milliamps with a low signal and user counts of 0 milliamps and -32768 counts and a high signal and user counts of 21.074 milliamps with 32767 counts. The current draw of this module at 5.1V is 250 milliamps from 0 to 550 ohms terminated on the OUTs and RTNs and 551 to 1000 ohms terminated on the OUTs and ALTs. At 24V, its current draw is 225 milliamps for 0 to 550 ohms terminated on the OUTs and RTNs and 300 milliamps for 551 to 1000 ohms terminated on OUTs and ALTs. It has a total backplane power of 6.7 W for 0 to 550 ohms and 8.5 W for 551 to 1000 ohms. The module has a maximum power dissipation of 5.5 W for 0 to 550 ohms loads and 6.1 W for 551 to 1000 ohms loads. It does not have open circuit detection but it does have a 24V DC overvoltage protection and a short circuit protection that is limited to 21 milliamps or less. Routine tested at 1350V AC for 2 s, its continuous isolation voltage is 250V.

The 1756-OF6CI module has a maximum module scan time of 10 ms for the integer format and 25 ms for floating point format with a module error of 0.6% of the range. Its settling time is less than 2 ms to 95% of final value with resistive loads, a calibration interval of 6 months, and a calibrated accuracy of better than 0.1% of 4 to 21 milliamps at 25 Degrees Celsius. The nominal gain drift with temperature is 0.001% per Degree Celsius and the maximum output drift with temperature is 100 ppm per Degree Celsius.

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