

Allen-Bradley 1756-OF6CI Manual

Brand	Allen-Bradley
Product Series	1756
Product Type	Isolated Analog Output Module with current loop

Description

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

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.

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 60 ppm per Degree Celsius and the maximum gain drift with temperature is 100 ppm per Degree Celsius.

Technical Specifications

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