

Allen-Bradley 1756 Series Service Manual

1756-L81E-NSE

1. Description

The Allen-Bradley 1756-L81E-NSE Controller is a product of Allen-Bradley and part of the ControlLogix Controller series. This unit features 32 controller tasks and 1000 programs per task. Technical specifications for 1756-L81E-NSE

2. Specifications

Specification	Value
Brand	Allen-Bradley / Rockwell Automation
Series	ControlLogix
Part	Number 1756-L81E-NSE
Product	Type Controller
Product	Line ControlLogix 5580
Controller	Tasks 32
Programs	Per Task 1000
Minimum	Current Draw 5 mA at 1.2V DC
Maximum	Current Draw 1.2 A at 5.1V DC
Power	Dissipation 6.2 W
Thermal	Dissipation 21.2 BTU/hour Description
Allen-Bradley/Rockwell	Automation manufactures the 1756-L81E-NSE Controller as a ControlLogix controller that is part of the ControlLogix 5580 Controllers series. Some of the main features of this controller include 32 controller tasks, 1000 programs per task, and local input and output event triggers without limits. It also comes with one built-in USB port and an embedded Ethernet port for communication purposes. The USB port has full speed operation at 12 MB per second and it can be used for configuration, programming, and online edits. The Ethernet performance for the 1756-L81E-NSE ControlLogix Controller includes speeds of 10, 100, and 1000 MB per second.

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The programming languages used for this unit include the Relay Ladder Logic, Function Block Diagram, Structured Text, and Sequential function chart programming languages. The maximum number of supported digital I/O is 128,000 while the maximum number of supported analog I/O is 4000. It has a current draw of 5 milliamps at 1.2 Volts DC and 1.2 Amps at 5.1 Volts DC. This controller has a power dissipation rating of 6.2 Watts, and a thermal dissipation rating of 21.2 BTU per hour, and it has no residual stored energy.