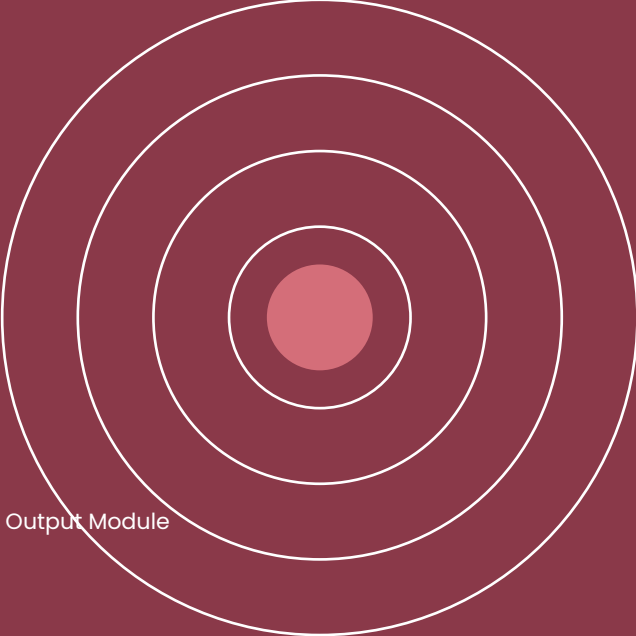


MANUFACTURER-SOURCE TECHNICAL REFERENCE

Alstom LD106

Product Reference

ALSTOM Power ALSPA LD106 16-Point 48 VDC Static Logic Output Module

**DOCUMENT SCOPE**

Independent Apter Power manual compiled only from the cited Alstom manufacturer sources. No product photograph is included.

Product / lookup identity	Alstom LD106
Reference number	LD106
Document basis	Published Alstom product records, PDFs, and manuals listed on page 3

**Product page**

<https://www.apterpower.com/Alstom/Ld106>
Apter Power contact

sales13@apterpower.com | +86 180 3023 5313

Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ALSTOM Power LD106 is identified in the ALSPA P320 System Definition Manual as a CE2000 logic-output module with 16 discrete points. Within a CE2000 controller, the module receives logic commands through the controller's I/O/backplane structure and switches discrete 48 VDC process outputs for field-control circuits. System context: ALSTOM Power ALSPA LD106 16-Point 48 VDC Static Logic Output Module.

Published field	Manufacturer-published value or verified identity note
Official module reference	LD106
Module type	Logic output
Number of points	16
Signal level	48 VDC
Output method	Static switching, powered negative output
Installation context	CE2000 I/O controller in the ALSPA P320 system
CE2000 module electronics supply	Taken from the CE2000 backplane bus

System function and signal path

- 01 Within a CE2000 controller, the module receives logic commands through the controller's I/O/backplane structure and switches discrete 48 VDC process outputs for field-control circuits. The P320 manual describes CE2000 I/O modules as using backplane power for module electronics and a separate process supply for sensors or actuators, but it does not provide the exact LD106 channel current, output protection, isolation or response time in the reviewed pages.
- 02 LD106 belongs to the ALSPA P320 automation architecture, where CE2000 high-quality controllers connect to an F8000 fieldbus in an automation cell. Appropriate scenarios include maintaining existing static-output points, commanding compatible plant actuators through engineered interface circuits, and preserving field wiring during a controls modernization; all load and safe-state details must follow the plant's LD106 Technical Data Sheet and drawings.
- 03 GE Vernova classifies ALSPA as a legacy technology that it continues to service and offers migration to Mark VIe. GE's ControlST release notes state that PCEG V05.16.00C supports LD106 for an ALSPA DCS Retrofit, but those same notes call the board a digital input, conflicting with ALSTOM's dedicated output-module table; publication and replacement work must retain this conflict as a verification gate.

Applications, answers, and official sources

1 Existing ALSPA P320 discrete output maintenance: Restores or maintains a site-matched bank of 16 static 48 VDC logic outputs in a CE2000 controller.

2 Power-plant actuator command circuits: Switches engineered on/off commands to compatible 48 VDC actuator interface circuits in thermal, combined-cycle or hydro plant automation.

3 Industrial and substation P320 control cells: Provides site-specific discrete outputs in ALSPA P320 automation cells used for substations or high-availability industrial processes described by the OEM system manual.

4 ALSPA-to-Mark VIe smart retrofit: Retains compatible LD106 I/O and process wiring while the control layer migrates through a project-engineered PCEG/Mark VIe solution.

Frequently asked questions

What is the ALSTOM LD106?	The ALSTOM P320 system manual identifies it as a CE2000 16-point, 48 VDC, static-switching logic-output module with a powered negative output.
Is LD106 an input or output module?	The dedicated ALSTOM hardware table says output. GE's later retrofit release note says input, creating an official-source conflict. Use the site technical data sheet and wiring drawing as the final authority.
How many channels does LD106 have?	The ALSTOM P320 manual lists 16 logic-output points.
What voltage does LD106 switch?	The OEM system table specifies 48 VDC. Exact voltage tolerance and load current were not verified.
Does LD106 use relay contacts?	The ALSTOM table calls it static switching, not a relay/contact output. LC105 and LC106 are separate logic-output families and must not be confused with it.
What does powered negative output mean?	That is the exact OEM system-manual wording. Do not infer terminal polarity or publish a sourcing/sinking label until the LD106 technical data sheet and plant wiring are reviewed.

Official Alstom sources

Power Plant Automation and Control Lifecycle Services	https://www.governova.com/steam-power/services/automation-controls/lifecycle-services
Power Plant Automation and Control Upgrades	https://www.governova.com/steam-power/services/automation-controls/upgrades
2018 Steam Power Product Catalog - Power Automation & Controls	https://www.governova.com/content/dam/gepower/global/en_US/documents/PAC_Solutions%20Steam%20Power%20Catalogue.pdf
CE3000-I Gateway Module (PCEG) EU Declaration of Conformity	https://www.governova.com/content/dam/gepower-new/global/en_US/downloads/gas-new-site/products/digital-and-controls/certificates/Mark_VIe/European_Union/IS420PCEGH1A_EU-DoC.pdf