

8280-4001

Woodward Large Engine Control Module (LECM)

It is an engine-mounted controller that executes the approved application for sensing, protection, sequencing and actuator control.

IDENTITY	VALUE
Manufacturer	WOODWARD
Model	8280-4001
Product type	Woodward Large Engine Control Module (LECM)
HS code	8537101190
Shipping location	Xiamen, Fujian, China

Product-specific system role

- Uses Woodward's modular LECM architecture
- Operates alone or in a stacked LECM arrangement
- Shares information between independently programmed modules
- Supports engine monitoring, protection and data communication

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Technical Specifications

PARAMETER	VERIFIED VALUE
Part number	8280-4001
Product model	LECM
OEM part number	7607E05
Nameplate revision	F
Manufacture year	2018
Nameplate serial number	21480691
Input voltage	24 V DC
MAIN input current	6 A maximum
EID input current	20 A maximum
Ambient temperature	-40 to +85 degC
Ingress protection	IP54
North American hazardous-location class	Class I, Division 2, Groups A-D, T4
ATEX marking	II 3 G; Ex nA IIC T4 Gc X; IP54
IECEX certificate	IECEX CSA 14.0047X

MODEL-SPECIFIC ENGINEERING NOTE

Isolate the 24 V DC supply and hazardous-area circuits, preserve every keyed connector and CAN identity, then reload only the approved application and prove protection, diagnostics and commanded outputs.

System Function and Engineering Context

- Uses Woodward's modular LECM architecture
- Operates alone or in a stacked LECM arrangement
- Shares information between independently programmed modules
- Supports engine monitoring, protection and data communication

Companion components

- Configured LECM MAIN/EID/AUX stack
- Engine sensors and actuators
- CAN communications and Woodward service tools
- Validated application software and SID files

APPLICATION	SYSTEM ROLE
Reciprocating-engine control	Uses 8280-4001 in the documented Woodward Large Engine Control Module system arrangement.
Power-generation engine packages	Uses 8280-4001 in the documented Woodward Large Engine Control Module system arrangement.
Marine and locomotive propulsion	Uses 8280-4001 in the documented Woodward Large Engine Control Module system arrangement.
Industrial process engines	Uses 8280-4001 in the documented Woodward Large Engine Control Module system arrangement.

Installation and Commissioning Controls

1

Verify the complete 8280-4001 marking and the assigned Woodward Large Engine Control Module system position before work.

2

Place the connected machine or process in the approved maintenance state before disturbing 8280-4001.

3

Isolate the applicable power and field energy, then confirm a safe state before disconnecting 8280-4001.

4

Record connector, conductor, slot and configuration identities before removal of 8280-4001.

5

Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies during handling.

6

Confirm that the installed companion hardware and approved project match the 8280-4001 arrangement.

7

Restore power in a controlled sequence and review device, rack and host diagnostics.

8

Prove the intended function and retain the final test result before returning 8280-4001 to service.

Engineer FAQ - Part 1

What is 8280-4001?

WOODWARD 8280-4001 is woodward large engine control module (lecm). It is an engine-mounted controller that executes the approved application for sensing, protection, sequencing and actuator control.

Which system uses 8280-4001?

Use 8280-4001 only in the documented Woodward Large Engine Control Module system arrangement and the installed hardware configuration.

What should be checked before installing 8280-4001?

Confirm the complete marking, assigned position, companion hardware and approved configuration before field work.

How should wiring be handled when replacing 8280-4001?

Record every connector and conductor before removal, preserve polarity and shielding, and follow the applicable manufacturer connection instructions.

Engineer FAQ - Part 2

How is 8280-4001 configured after replacement?

Restore only the approved project or device settings, then verify status and diagnostics before automatic operation.

How should 8280-4001 be commissioned?

Energize under controlled conditions, exercise the intended system function and record the final diagnostic state.

What maintenance record is needed for 8280-4001?

Retain the as-found connection record, installed position, configuration revision and functional-test result.

Can 8280-4001 be substituted directly?

A substitution requires complete catalog-number, hardware-revision, interface and system-compatibility checks against the controlling documentation.

Related product pages on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
5464-643	Related WOODWARD product	View 5464-643 page
8200-203	Related WOODWARD product	Open 8200-203 listing
9905-971	Related WOODWARD product	Explore 9905-971 module
8280-192	Related WOODWARD product	Review 8280-192 item
5437-2131	Related WOODWARD product	See 5437-2131 profile
5464-654	Related WOODWARD product	Open 5464-654 details
5464-333	Related WOODWARD product	Visit 5464-333 page
5464-334	Related WOODWARD product	View 5464-334 option

SOURCE RECORD

Woodward Large Engine Control Modules product page, W-LECM-EN brochure and physical 8280-4001 nameplate - W-LECM-EN; 8280-4001 nameplate