

8237-1246

ProTech-GII triple-modular-redundant overspeed protection device

CONTROLLED ENGINEERING COPY

Verify the exact 8237-1246 execution, supply rating, sensor type, trip setpoints, relay wiring and voted-test procedure; test each module and the final shutdown path before returning the machine to service.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	8237-1246
Manufacturer part	8237-1246
Hardware type	Triple modular redundant
System family	Woodward ProTech-GII overspeed protection
HS code	8537101190



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 8237-1246 marking and its assigned Woodward ProTech-GII overspeed protection position before work.
- 2

Place the connected steam-turbine overspeed protection process in the approved maintenance state.
- 3

Isolate applicable power and three independent speed inputs, voted trip relays and analog speed outputs field energy before disconnecting conductors.
- 4

Record connector, conductor, address, firmware and software identities before removal.
- 5

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

MATCHED HARDWARE

- three MPU or proximity speed sensors
- independent trip relay circuits
- machine shutdown system
- ProTech-GII configuration and test interface

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	8237-1246 / 8237-1246 recorded
Physical interface	three MPU or proximity speed sensors
Companion check	independent trip relay circuits
Functional proof	Uses three independent speed-sensing modules
Application test	Steam-turbine overspeed protection

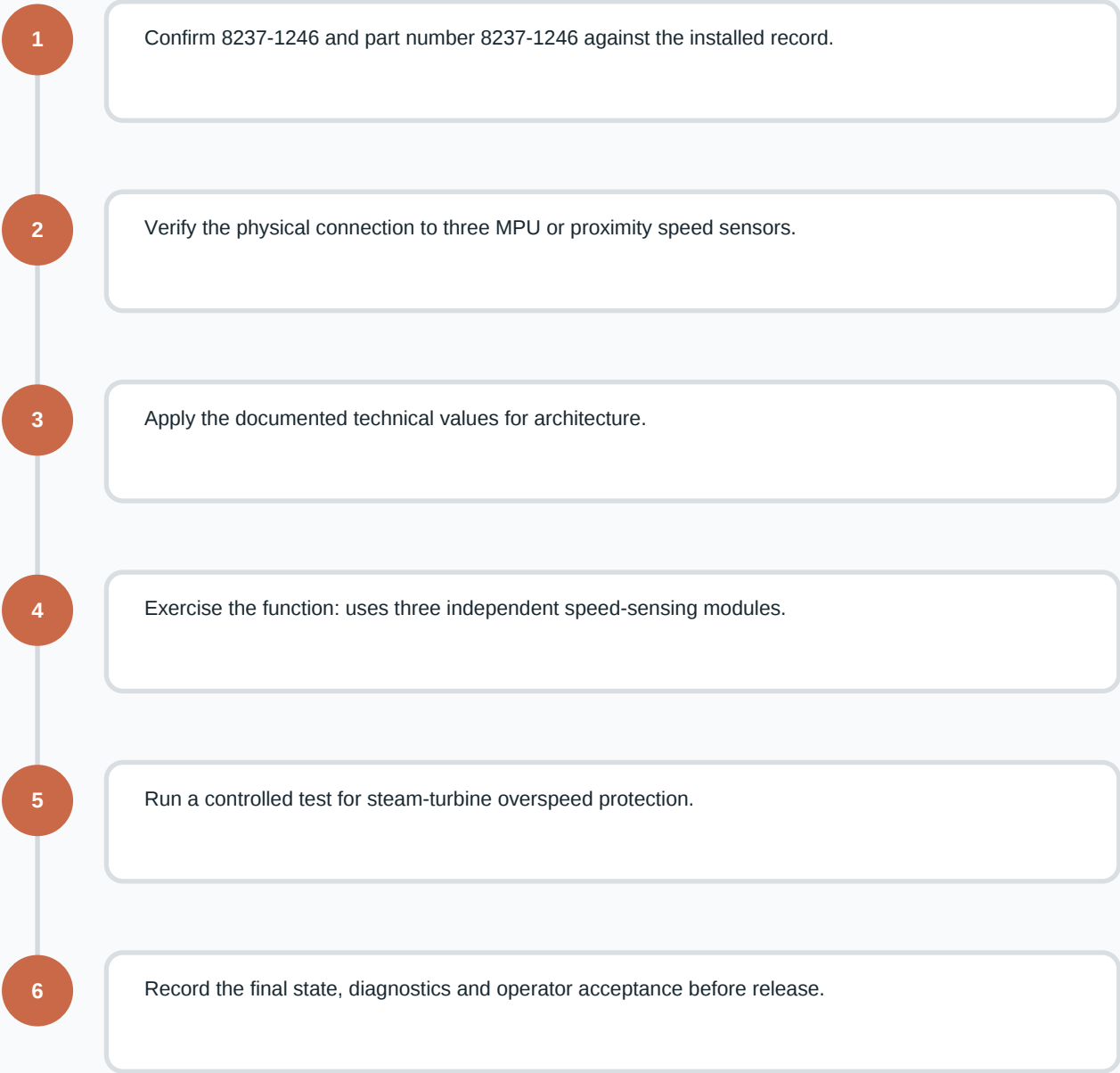
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Architecture	Triple modular redundant
Voting logic	2-out-of-3
Response time	12 ms
Speed range	0.5 to 32,000 rpm
Speed inputs	3 MPU/PROX inputs; one per module
Alarm relays	3
Analog speed outputs	3
Functional safety	IEC 61508 SIL 3
Mounting	Bulkhead

FIELD NOTE

Verify the exact 8237-1246 execution, supply rating, sensor type, trip setpoints, relay wiring and voted-test procedure; test each module and the final shutdown path before returning the machine to service.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	8237-1246 / 8237-1246 recorded
Physical interface	three MPU or proximity speed sensors
Companion check	independent trip relay circuits
Functional proof	Uses three independent speed-sensing modules
Application test	Steam-turbine overspeed protection

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed three MPU or proximity speed sensors and independent trip relay circuits against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended gas-turbine trip voting function and retain the final test result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	8237-1246
INSTALLED POSITION	Documented Woodward ProTech-GII overspeed protection position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Omron NS5-MQ00-V2	Related industrial automation product	View Omron NS5-MQ00-V2 page
Allen-Bradley 1794-OB16P	Related industrial automation product	View Allen-Bradley 1794-OB16P page
Allen-Bradley 1756-L82E-B	Related industrial automation product	View Allen-Bradley 1756-L82E-B page
Vibro Meter MPC4-200-510-SSS-1HH	Related industrial automation product	View Vibro Meter MPC4-200-510-SSS-1HH page
Honeywell MC-TLPA02-51309204-175	Related industrial automation product	View Honeywell MC-TLPA02-51309204-175 page
Honeywell MC-TDIY22-51204160-175	Related industrial automation product	View Honeywell MC-TDIY22-51204160-175 page
Honeywell MC-TAOY22-51204172-175	Related industrial automation product	View Honeywell MC-TAOY22-51204172-175 page
Honeywell MC-TAMR03-51309218-175	Related industrial automation product	View Honeywell MC-TAMR03-51309218-175 page

SOURCE IDENTIFIERS

Woodward ProTech-GII Overspeed Protection Device Manual
Manual 26545, revision G

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