

AAM50

4 to 20 mA current output module

CONTROLLED ENGINEERING COPY

Verify nest position, loop polarity, receiver load, configured output range and software revision; test the loop at controlled values before enabling automatic control.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	AAM50
Manufacturer part	AAM50
Hardware type	AAM50
System family	Yokogawa process I/O module-nest system



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete AAM50 marking and its assigned Yokogawa process I/O module-nest system position before work.
- 2

Place the connected valve-position current command process in the approved maintenance state.
- 3

Isolate applicable power and one isolated 4 to 20 ma dc process output field energy before disconnection.
- 4

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

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

MATCHED HARDWARE

- Yokogawa AMN11 or AMN12 analog I/O nest
- M4 terminal field wiring
- configured current-loop receiver
- system software R2.07 or later

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	AAM50 / AAM50 recorded
Physical interface	Yokogawa AMN11 or AMN12 analog I/O nest
Companion check	M4 terminal field wiring
Functional proof	Provides a 4–20 mA DC output
Application test	Valve-position current command

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Model	AAM50
Output signal	4 to 20 mA DC
Output resistance	500 kOhm or more
Allowable load	0 to 750 Ohm
Output range	1.0 to 21.5 mA DC
Output voltage limit	25.5 V DC or less
Open-output detection	0.65 mA or less
Accuracy	+/-48 microampere
Temperature effect	+/-32 microampere per 10 degC change
Load-change effect	+/-16 microampere for 0 to 75 Ohm change
Data update	20 ms
Step response	100 ms
Current consumption	250 mA or less at 5 V DC
Isolation withstand	1500 V AC for one minute

FIELD NOTE

Verify nest position, loop polarity, receiver load, configured output range and software revision; test the loop at controlled values before enabling automatic control.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	AAM50 / AAM50 recorded
Physical interface	Yokogawa AMN11 or AMN12 analog I/O nest
Companion check	M4 terminal field wiring
Functional proof	Provides a 4–20 mA DC output
Application test	Valve-position current command

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed Yokogawa AMN11 or AMN12 analog I/O nest and M4 terminal field wiring against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended dcs analog setpoint output function and retain the final test result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	AAM50
INSTALLED POSITION	Documented Yokogawa process I/O module-nest system 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
Bently Nevada 330854 080 25 00	Related industrial automation product	View Bently Nevada 330854 080 25 00 page
Bently Nevada 330105 02 12 15 12 CN	Related industrial automation product	View Bently Nevada 330105 02 12 15 12 CN page
Emerson KJ3003X1 EA1	Related industrial automation product	View Emerson KJ3003X1 EA1 page
Bently Nevada 330101 00 19 10 02 00	Related industrial automation product	View Bently Nevada 330101 00 19 10 02 00 page
Bently Nevada 330104 10 20 05 02 00	Related industrial automation product	View Bently Nevada 330104 10 20 05 02 00 page
Emerson WSNF8327B002	Related industrial automation product	View Emerson WSNF8327B002 page
Emerson WSNF8327A321MO	Related industrial automation product	View Emerson WSNF8327A321MO page
Emerson WSNF8551A409MO	Related industrial automation product	View Emerson WSNF8551A409MO page

SOURCE IDENTIFIERS

Yokogawa Process I/O Module Nest General Specifications
GS 33G06K40-01E, 17th Edition

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