

FC-SAI-1620M

Safe Analog Input Module

CONTROLLED ENGINEERING COPY

Record channel scaling and trip thresholds, isolate transmitter loops and prove input accuracy, readback and trip behavior under the approved safety test procedure.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	FC-SAI-1620M
Manufacturer part	FC-SAI-1620M
Hardware type	16
System family	Honeywell Safety Manager



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete FC-SAI-1620M marking and its assigned sixteen-channel safe analog-input position before work.
- 2

Place the connected process and control strategy in the approved maintenance state.
- 3

Isolate the applicable cabinet supply and analog input field energy before disconnecting conductors.
- 4

Record terminal numbers, channel assignments, polarity, shields and configured ranges before removal.
- 5

Use ESD controls and protect the backplane connector, terminal hardware and coated electronics.

MATCHED HARDWARE

- Safety Manager I/O chassis
- conditioned analog safety transmitters
- 24 V DC module supply
- validated safety application

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	FC-SAI-1620M / FC-SAI-1620M recorded
Physical interface	Safety Manager I/O chassis
Companion check	conditioned analog safety transmitters
Functional proof	Acquires sixteen safe analog input channels
Application test	Analog trip-threshold monitoring

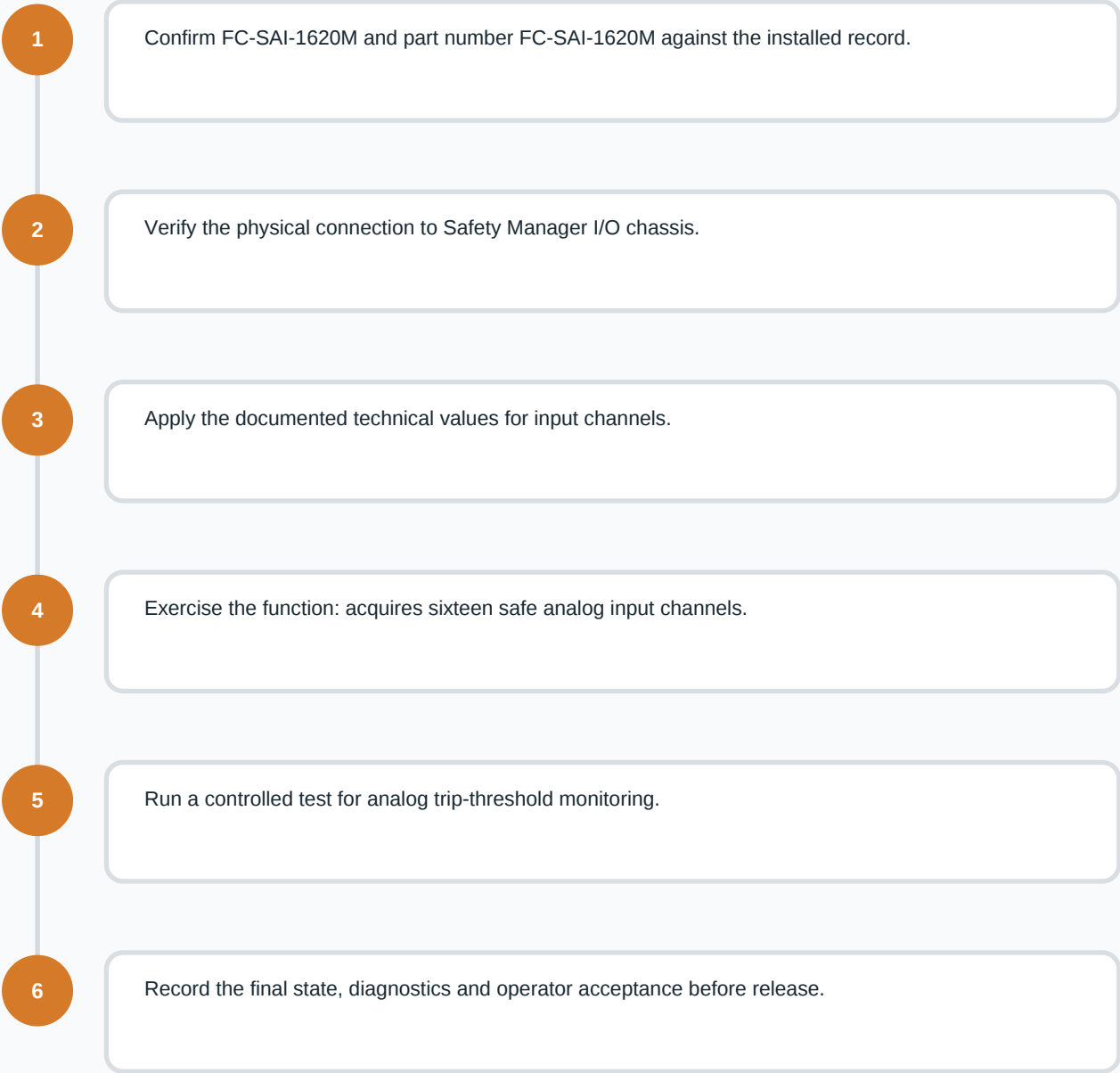
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Input channels	16
Input range	0 to 4.1 V
Input impedance	>1 MOhm
Maximum load capacitance	100 nF
A/D resolution	12 bit
ADC inaccuracy	+/-1 LSB
Module inaccuracy	<0.25%
Absolute maximum input	+/-36 V DC
Crosstalk	>60 dB
External readback range	0 to 4.1 V
External readback impedance	1 MOhm typical
5 V DC current	35 mA
24 V DC current	35 mA
Module size	4TE, 3HE (4HP, 3U)

FIELD NOTE

Record channel scaling and trip thresholds, isolate transmitter loops and prove input accuracy, readback and trip behavior under the approved safety test procedure.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	FC-SAI-1620M / FC-SAI-1620M recorded
Physical interface	Safety Manager I/O chassis
Companion check	conditioned analog safety transmitters
Functional proof	Acquires sixteen safe analog input channels
Application test	Analog trip-threshold monitoring

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed Safety Manager I/O chassis and carrier arrangement against the approved project.
- ☐
- Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- ☐
- Complete multi-point scaling, readback and trip-response proof testing and retain the measured result before returning the channel to automatic service.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	FC-SAI-1620M
INSTALLED POSITION	Documented Honeywell Safety Manager 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
330101-00-12-10-02-00	Related industrial automation product	View 330101-00-12-10-02-00 page
330101-00-08-10-02-05	Related industrial automation product	View 330101-00-08-10-02-05 page
330101-00-08-10-02-00	Related industrial automation product	View 330101-00-08-10-02-00 page
3BHE022293R0101-PCD232 A	Related industrial automation product	View 3BHE022293R0101-PCD232A page
330101-00-08-05-02-00	Related industrial automation product	View 330101-00-08-05-02-00 page
6SE7090-0XX87-4AH0	Related industrial automation product	View 6SE7090-0XX87-4AH0 page
C98043-A7109-L100	Related industrial automation product	View C98043-A7109-L100 page
6RY1803-0CM20	Related industrial automation product	View 6RY1803-0CM20 page

SOURCE IDENTIFIERS

Honeywell Safety Manager Hardware Reference
EP-SM.MAN.6284, Issue 1.10

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