

CC-PAIL51

Low-Level Analog Temperature Input Module

CONTROLLED ENGINEERING COPY

Confirm the installed CC-TAIL51 IOTA, sensor type, cold-junction arrangement, lead compensation and configured engineering range before channel acceptance.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	CC-PAIL51
Manufacturer part	CC-PAIL51
Hardware type	Low-level analog temperature input
System family	Experion Series-C I/O



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete CC-PAIL51 marking and its assigned temperature-input position before work.
- 2

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

Isolate the applicable cabinet supply and sensor 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

- CC-TAIL51 IOTA
- field thermocouples or RTDs
- Series-C carrier
- Experion controller and Control Builder project

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	CC-PAIL51 / CC-PAIL51 recorded
Physical interface	CC-TAIL51 IOTA
Companion check	field thermocouples or RTDs
Functional proof	Conditions sixteen low-level temperature channels
Application test	Furnace-zone temperature acquisition

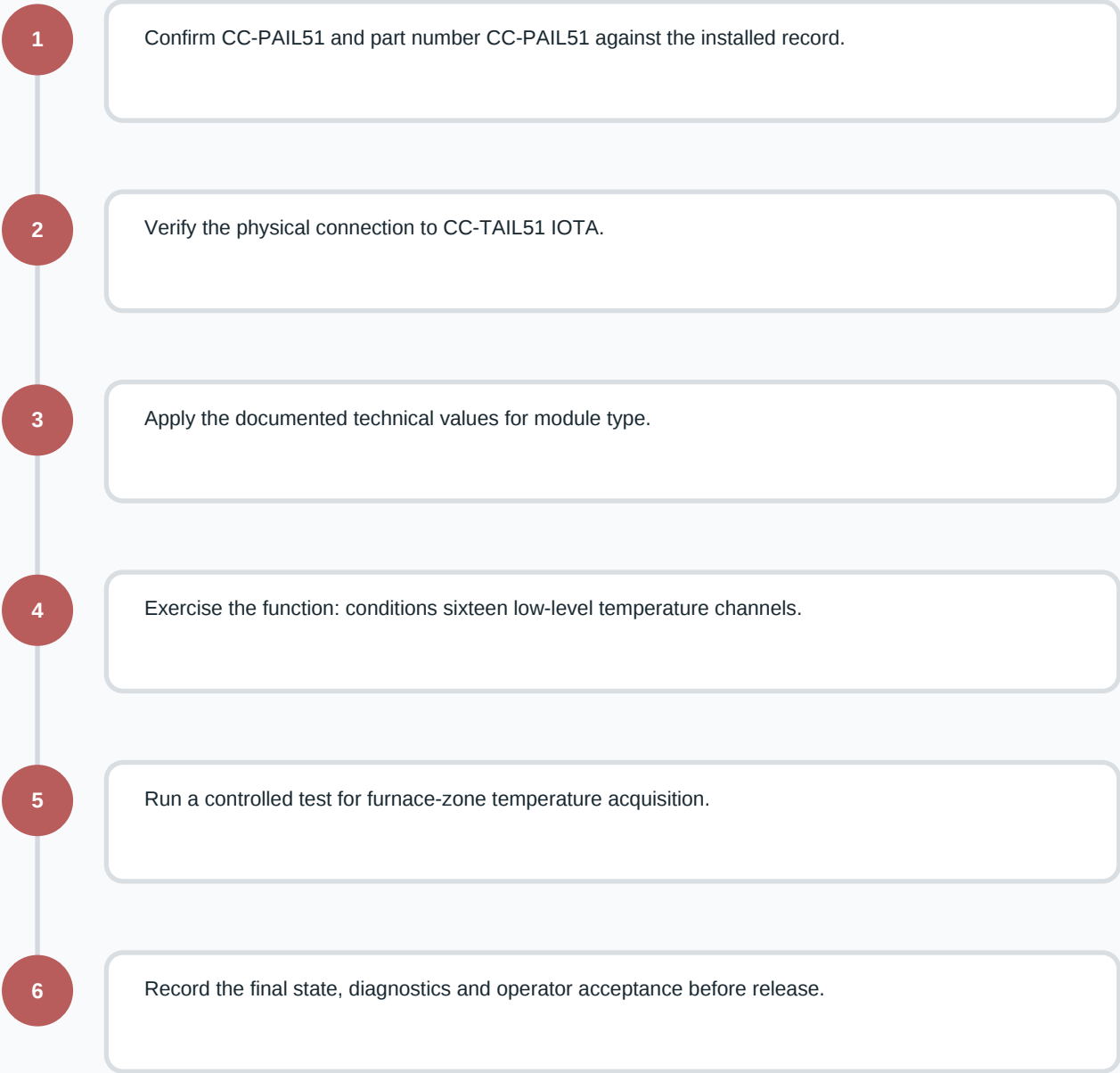
02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Module type	Low-level analog temperature input
Input channels	16
Supported sensor inputs	Thermocouple or RTD per channel
IOTA	CC-TAIL51; 9 in
Operating temperature	-40 to +70 degC
Storage temperature	-40 to +85 degC
Channel isolation	Channel-to-channel and power isolated
Input scan	1 s
Bandwidth	0 to 4.7 Hz
Thermocouple input range	-20 to +100 mV
TC non-damage input	-10 to +10 V
RTD non-damage input	-1 to +2 V at 100 mA
Gain error	0.050% FS maximum
Gain stability	+/-20 ppm

FIELD NOTE

Confirm the installed CC-TAIL51 IOTA, sensor type, cold-junction arrangement, lead compensation and configured engineering range before channel acceptance.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	CC-PAIL51 / CC-PAIL51 recorded
Physical interface	CC-TAIL51 IOTA
Companion check	field thermocouples or RTDs
Functional proof	Conditions sixteen low-level temperature channels
Application test	Furnace-zone temperature acquisition

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed CC-TAIL51 IOTA and carrier arrangement against the approved project.
- ☐
- Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- ☐
- Complete a controlled temperature simulation on every active channel and retain the measured result before returning the channel to automatic service.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	CC-PAIL51
INSTALLED POSITION	Documented Experion Series-C I/O 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
MC-TDIA72	Related industrial automation product	View MC-TDIA72 page
TK-HAO081	Related industrial automation product	View TK-HAO081 page
05704-A-0123	Related industrial automation product	View 05704-A-0123 page
10209-2-1	Related industrial automation product	View 10209-2-1 page
51307038-100	Related industrial automation product	View 51307038-100 page
10014-H-I	Related industrial automation product	View 10014-H-I page
10014-F-F	Related industrial automation product	View 10014-F-F page
51401583-200	Related industrial automation product	View 51401583-200 page

SOURCE IDENTIFIERS

Honeywell Experion Series-C I/O Specification
EP03-490-520, Release 520, Version 1.5

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