

DC-TAIL51

Low-Level Analog Input IOTA

Honeywell DC-TAIL51 is a 16-channel low-level analog-input IOTA that connects temperature and millivolt field signals to the CC-PAIL51 module.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion Series C I/O

PART

51307601-176

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PRODUCT OVERVIEW

Honeywell DC-TAIL51 is a 16-channel low-level analog-input IOTA that connects temperature and millivolt field signals to the CC-PAIL51 module.

1

Terminates low-level analog sensors

2

Pairs with the CC-PAIL51 input module

3

Provides sixteen field channels

4

Supports temperature and millivolt acquisition

SYSTEM COMPONENTS

CC-PAIL51 LLAI module

Series C carrier

Low-level sensor cable

Field shield and reference junction wiring

TECHNICAL DATA

PARAMETER	VALUE
PWA number	51307601-176
PWA revision	B
Companion module	CC-PAIL51

PARAMETER	VALUE
Signal type	Low-level analog input
Input channels	16

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TECHNICAL NOTE

Preserve sensor polarity, lead configuration and shield termination, then verify the selected low-level input type in the channel database.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Thermocouple cabinet inputs

Terminates low-level analog sensors

RTD temperature acquisition

Pairs with the CC-PAIL51 input module

Millivolt analyzer signals

Provides sixteen field channels

Rotating-equipment temperature monitoring

Supports temperature and millivolt acquisition

PRODUCT PRECAUTIONS

- 1 Verify the complete DC-TAIL51 marking and its assigned Experion Series C I/O position before work.
- 2 Isolate the applicable power and field energy before disconnecting DC-TAIL51.
- 3 Protect DC-TAIL51 connectors and electronic assemblies with approved ESD controls.
- 4 Record the installed wiring, channel assignment and configuration before replacement.
- 5 Match CC-PAIL51 LLA module and Series C carrier to the documented system arrangement.
- 6 Commission DC-TAIL51 with controlled status, signal and diagnostic checks.
- 7 Retain the final thermocouple cabinet inputs functional-test result in the maintenance record.

ENGINEER FAQ

Q1 Does DC-TAIL51 match CC-PAIL51 LLAI module in a Thermocouple cabinet inputs installation?

Verify the complete DC-TAIL51 marking, the documented Experion Series C I/O position and the installed CC-PAIL51 LLAI module before fitting the assembly.

Q2 How should DC-TAIL51 be wired when it must terminates low-level analog sensors?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for DC-TAIL51; then continuity-test the affected path.

Q3 Which Experion Series C I/O records should be captured before removing DC-TAIL51?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with DC-TAIL51 before disconnection.

Q4 What controlled test confirms that DC-TAIL51 can pairs with the cc-pail51 input module?

Apply the approved field or simulated stimulus, observe the Experion Series C I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which Series C carrier condition should be checked when DC-TAIL51 reports an abnormal state?

Check the Series C carrier supply, seating and connection first, then compare channel diagnostics with the recorded DC-TAIL51 baseline.

Q6 Can DC-TAIL51 be moved directly into RTD temperature acquisition without validating Field shield and reference junction wiring?

No. Confirm the Field shield and reference junction wiring, revision, connection scheme and Experion Series C I/O configuration before transferring DC-TAIL51 to that duty.

Q7 What maintenance evidence is required after DC-TAIL51 is used for Millivolt analyzer signals?

Retain the nameplate record, corrective action, final diagnostics and a controlled millivolt analyzer signals functional-test result for DC-TAIL51.

Q8 How should DC-TAIL51 be returned to service in Rotating-equipment temperature monitoring?

Restore power under control, verify provides sixteen field channels, exercise the intended signal path and release DC-TAIL51 only after the Experion Series C I/O remains in its approved operating state.

SOURCE Honeywell product nameplate and Series C I/O documentation | PWA 51307601-176 Rev B

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