MC-PAIH03 51304754-150

Analog Input Module

Honeywell MC-PAIH03 51304754-150 is a CE-compliant 16-channel high-level analog input processor for C200 and PM I/O.

PRODUCT SNAPSHOT

BRAND	Honeywell
FAMILY	C200 and PM I/O
PART	51304754-150
PRODUCT TYPE	Analog Input Module

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PRODUCT OVERVIEW

Honeywell MC-PAIH03 51304754-150 is a CE-compliant 16-channel high-level analog input processor for C200 and PM I/O.

1. Acquires sixteen differential high-level analog inputs.
2. Accepts published voltage and current signal ranges.
3. Converts field signals with a 16-bit converter using 14 data bits.
4. Updates all sixteen channels within 250 ms.

SYSTEM COMPONENTS

- Matched HLAI field termination assembly
- C200 or PM I/O card file
- Differential analog field circuits
- Documented IOP cable

TECHNICAL NOTE

Select the correct range per channel and preserve the matched HLAI termination assembly. Do not mix the -150 part with later -176 hardware revisions.

TECHNICAL DATA

PARAMETER	VALUE
IOP model	MC-PAIH03
Part number	51304754-150
Input channels	16 differential
Signal ranges	0-5 V; 1-5 V; 0.4-2 V; 4-20 mA
Conversion	16-bit; 14 bits used

PARAMETER	VALUE
Scan rate	4 samples/s/channel
All-channel update	250 ms
Compliance	CE
Coating	Conformal

ENGINEERING NOTE

Select the correct range per channel and preserve the matched HLAI termination assembly. Do not mix the -150 part with later -176 hardware revisions.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Honeywell MC-TDOR62	TPS relay-output termination	View Honeywell MC-TDOR62 page
Honeywell MC-TPIX12 51304084-175	TPS pulse-input termination	View Honeywell MC-TPIX12 51304084-175 page
Honeywell MC-TSIM12 51303932-476	TPS serial-interface termination	View Honeywell MC-TSIM12 51303932-476 page
Honeywell MC-TAOY25 51305865-275	TPS analog-output termination	View Honeywell MC-TAOY25 51305865-275 page
Honeywell DC-TFB412	Series C redundant FIM IOTA	View Honeywell DC-TFB412 page
Honeywell MC-IOLX02	TPS remote I/O link extender	View Honeywell MC-IOLX02 page
Honeywell 10002/1/2	FSC control and I/O module	View Honeywell 10002/1/2 page
Honeywell 10014/F/F	FSC communication module	View Honeywell 10014/F/F page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

4-20 mA transmitter inputs

Acquires sixteen differential high-level analog inputs.

1-5 V process signals

Accepts published voltage and current signal ranges.

Differential voltage acquisition

Converts field signals with a 16-bit converter using 14 data bits.

Legacy PM I/O analog service

Updates all sixteen channels within 250 ms.

PRODUCT PRECAUTIONS

1. Confirm MC-PAIH03 and part 51304754-150.
2. Record all 16 channel ranges and scaling assignments.
3. Isolate loop power and card-file power before removal.
4. Use ESD controls on the coated IOP and connector.
5. Preserve differential polarity, shields and matched FTA cable.
6. Do not substitute the later -176 revision without review.
7. Verify raw input, engineering scaling and scan diagnostics.
8. Retain the witnessed 16-channel acceptance record.

ENGINEER FAQ

Q1 **How many inputs are provided by Honeywell MC-PAIH03 51304754-150?**

The module provides sixteen differential high-level analog input channels.

Q2 **Which signal ranges are published for Honeywell MC-PAIH03 51304754-150?**

The planning data lists 0-5 V, 1-5 V, 0.4-2 V and 4-20 mA ranges.

Q3 **What conversion is documented for Honeywell MC-PAIH03 51304754-150?**

A 16-bit converter is used, with 14 bits used for the reported value.

Q4 **What scan rate applies to Honeywell MC-PAIH03 51304754-150?**

The module samples each channel four times per second.

Q5 **How quickly are all channels updated on Honeywell MC-PAIH03 51304754-150?**

All sixteen channels are updated within 250 ms.

Q6 **Which system family uses Honeywell MC-PAIH03 51304754-150?**

It is a high-level analog input IOP for C200 and Process Manager I/O.

Q7 **Can Honeywell MC-PAIH03 51304754-150 be replaced by a -176 board without review?**

No. Treat the hardware revision as a controlled compatibility decision.

Q8 **What completes commissioning of Honeywell MC-PAIH03 51304754-150?**

Verify loop polarity, selected range, raw input, engineering scaling and diagnostics for every used channel.

SOURCE Honeywell Experion Control Hardware Planning Guide | R301.1 HLAI IOP data

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