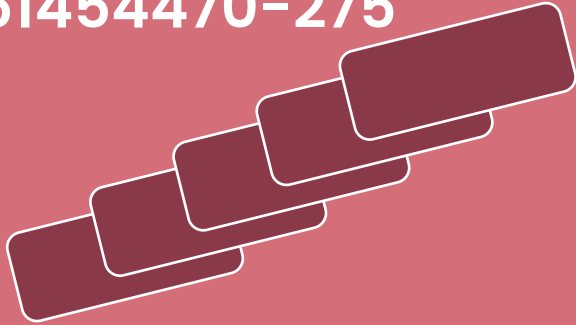


MANUFACTURER-SOURCE TECHNICAL REFERENCE

Honeywell 8C-PAIHA1 51454470-275

HART Analog Input Integration Guide

Honeywell Series 8 16-Channel HART Analog Input Module



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited Honeywell manufacturer sources. No product photograph is included.

Product / lookup identity	Honeywell 8C-PAIHA1 51454470-275
Reference number	8C-PAIHA1
Document basis	Published Honeywell product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/Honeywell/8c-paiha1-51454470-275>

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Field-current and HART signal path

Honeywell 8C-PAIHA1 is a coated, 16-channel Series 8 high-level analog input module with HART; the supplied 51454470-275 material number must be confirmed from the physical nameplate. The module converts high-level current signals from two-wire or self-powered transmitters into digital process data for the Honeywell controller and also carries HART information for device configuration, status and additional variables.

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| 01 | The module converts high-level current signals from two-wire or self-powered transmitters into digital process data for the Honeywell controller and also carries HART information for device configuration, status... |
| 02 | All 16 channels are single-ended 4-20 mA current inputs through 250 ohms. A 16-bit A/D converter, 50 ms scan and specified filtering/rejection support process measurement, while HART data can expose device... |
| 03 | The coated module plugs into a Series 8 IOTA: 8C-TAIXA1 for non-redundant configurations or 8C-TAIXB1 for redundant configurations. It is part of Honeywell Series 8 I/O used with C300-based Experion LX or... |

Field, termination, and controller boundaries

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|----|--|
| 01 | Status: CONDITIONAL - 8C-PAIHA1 is official; 51454470-275 requires nameplate evidence |
| 02 | Required Action: Verify a clear Honeywell nameplate or packaging label that shows both 8C-PAIHA1 and 51454470-275. If unavailable, publish 8C-PAIHA1 as the verified model and mark the material number... |
| 03 | Confusion To Avoid: Do not copy voltage/differential-input specifications from 8C-PAIH54. Honeywell explicitly states that 8C-PAIHA1 is single-ended current input and supports no differential or... |

Analog-input integration checks

01	Confirm that the physical nameplate maps 51454470-275 to 8C-PAIHA1; Honeywell's reviewed public specifications do not print that material number.
02	Use 8C-TAIXA1 for a coated non-redundant configuration or 8C-TAIXB1 for a coated redundant configuration; do not mix IOTA forms without verifying the engineered system.
03	Wire only supported single-ended 4-20 mA current inputs. No differential or voltage input is supported on 8C-PAIHA1.
04	Distinguish two-wire and self-powered transmitter loops and select internal or external field power according to the approved Honeywell design.
05	The system-to-field galvanic-isolation option requires external user-supplied power according to Honeywell's note.
06	Although under-power module removal/insertion is supported, follow the site and Honeywell maintenance procedure and assess process impact, redundancy state and hazardous-area rules first.

Identity and release controls

Status	CONDITIONAL - 8C-PAIHA1 is official; 51454470-275 requires nameplate evidence
Not Verified In Public Official Sources	['The exact mapping of Honeywell material number 51454470-275 to model 8C-PAIHA1.']

Official Honeywell sources

Series 8 Controller and I/O Specification	https://prod-edam.honeywell.com/content/dam/honeywell-edam/pmt/hps/products/pmc/modular-systems/experion-lx/hon-ia-pmc-experion-lx-series-8-specificationsheet-en.pdf
Series 8 Controller and I/O Specification	https://prod-edam.honeywell.com/content/dam/honeywell-edam/pmt/hps/products/pmc/modular-systems/experion-lx/pmt-hps-S803-150-110-20-v1.2.pdf