

APTER POWER ENGINEERING REFERENCE

MC-TAIH04

HART High-Level Analog Input FTA

The MC-TAIH04 is a 16-channel HART high-level analog input FTA that terminates smart transmitter loops and passes their process current and HART communication to Experion PM I/O.

Parameter	Technical value
Manufacturer	Honeywell
Product model	MC-TAIH04
Part number	51305900-175
System family	Experion PM I/O
Document	Installation & Application Guide
Country	USA
HS code	8537101190

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

One verified model, one engineered configuration path.

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SCAN FOR PRODUCT & QUOTE

MC-TAIH04

2. Installation Planning

The MC-TAIH04 is a 16-channel HART high-level analog input FTA that terminates smart transmitter loops and passes their process current and HART communication to Experion PM I/O.

Pre-installation sequence

- Confirm channel polarity before landing transmitter loops.
- Keep shield treatment consistent with the cabinet grounding design.
- Match the FTA cable to the HLAIHART processor position.
- Test HART communication and analog scaling for each channel.

Matched components

- HLAIHART input/output processor
- PM I/O rack and power system
- HART-capable two-wire transmitters
- FTA cable and compression-terminal wiring

3. Wiring and Interface Checks

Installation item	Required technical value
FTA type	HLAIHART
Model	MC-TAIH04
Part number	51305900-175
Terminal type	Compression
Channels	16
Mounting size	A
Compatible IOP	HLAIHART
Redundancy	Supported
Compliance	CE
Country	USA

Interface controls

- Use only the MC-TAIH04 hardware identity and the matched components listed for this product.
- Record wiring, polarity, addressing or channel allocation before disturbing installed conductors.
- Keep field circuits de-energized until continuity and insulation checks are complete.
- Apply the product-specific limits in the table during loop or channel testing.

4. Commissioning and Functional Test

- 1 Confirm that MC-TAIH04 and part number 51305900-175 match the cabinet record.
- 2 Verify the connection to HLAIHART input/output processor before applying operating power.
- 3 Check the product function: marshals hart transmitter loops at the cabinet edge.
- 4 Simulate or apply a controlled signal for smart pressure transmitter inputs.
- 5 Compare the channel indication or output state with the control database.
- 6 Record baseline values and restore the field circuit to its operating configuration.

5. Diagnostics and Return to Service

Product-specific diagnostic questions

How should an engineer verify size-A mounting on MC-TAIH04?

Use the MC-TAIH04 technical limit or configuration stated for size-A mounting, then verify it at the installed channel before service.

What must be checked for compression terminals on MC-TAIH04?

Treat compression terminals as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls HLAIHART pairing on MC-TAIH04?

The required check concerns HLAIHART pairing; confirm the connected hardware is the matched component listed for MC-TAIH04.

Why is it important to confirm redundant IOP arrangement on MC-TAIH04?

For redundant IOP arrangement, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model MC-TAIH04, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.