

APTER POWER ENGINEERING REFERENCE

MC-TAIH14

HART High-Level Analog Input FTA

The MC-TAIH14 is a size-B HART analog-input termination assembly for connecting sixteen smart process-measurement loops to the Honeywell HLAIHART processor.

Parameter	Technical value
Manufacturer	Honeywell
Product model	MC-TAIH14
Part number	51305887-150
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-TAIH14

2. Installation Planning

The MC-TAIH14 is a size-B HART analog-input termination assembly for connecting sixteen smart process-measurement loops to the Honeywell HLAIHART processor.

Pre-installation sequence

- Reserve the full size-B mounting envelope.
- Label each loop to match the processor channel database.
- Verify transmitter power and polarity before processor insertion.
- Exercise digital HART access without disturbing the current loop.

Matched components

- HLAIHART I/O processor
- PM I/O chassis hardware
- Smart current-loop transmitters
- Size-B FTA mounting surface

3. Wiring and Interface Checks

Installation item	Required technical value
FTA type	HLAIHART
Model	MC-TAIH14
Part number	51305887-150
Terminal type	Compression
Channels	16
Mounting size	B
Compatible IOP	HLAIHART
Redundancy	Supported
Country	USA
HS code	8537101190

Interface controls

- Use only the MC-TAIH14 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-TAIH14 and part number 51305887-150 match the cabinet record.
- 2 Verify the connection to HLAIHART I/O processor before applying operating power.
- 3 Check the product function: terminates smart analog measurement loops.
- 4 Simulate or apply a controlled signal for distributed process transmitter cabinets.
- 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-B panel space on MC-TAIH14?

Use the MC-TAIH14 technical limit or configuration stated for size-B panel space, then verify it at the installed channel before service.

What must be checked for sixteen-loop labeling on MC-TAIH14?

Treat sixteen-loop labeling as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls processor-cable routing on MC-TAIH14?

The required check concerns processor-cable routing; confirm the connected hardware is the matched component listed for MC-TAIH14.

Why is it important to confirm redundant switchover on MC-TAIH14?

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

RETURN-TO-SERVICE CHECK

Confirm model MC-TAIH14, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.