APTER POWER ENGINEERING REFERENCE

MC-TAOY25

HART Analog Output FTA

The MC-TAOY25 is a 16-channel HART analog-output FTA that routes Honeywell AO16HART control signals and device communication to field positioners and actuators.

Parameter	Technical value
Manufacturer	Honeywell
Product model	MC-TAOY25
Part number	51305865-275
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-TAOY25

2. Installation Planning

The MC-TAOY25 is a 16-channel HART analog-output FTA that routes Honeywell AO16HART control signals and device communication to field positioners and actuators.

Pre-installation sequence

- Confirm each final element is in a safe state before loop energization.
- Check output-loop polarity and field power arrangement.
- Validate commanded direction at a low-risk operating point.
- Commission HART diagnostics separately from analog stroke tests.

Matched components

- AO16HART processor
- PM I/O rack and power hardware
- HART valve positioners or actuators
- FTA interconnect cable

3. Wiring and Interface Checks

Installation item	Required technical value
FTA type	AO16HART
Model	MC-TAOY25
Part number	51305865-275
Terminal type	Compression
Output channels	16
Mounting size	B
Compatible IOP	AO16HART
Country	USA
HS code	8537101190

Interface controls

- Use only the MC-TAOY25 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-TAOY25 and part number 51305865-275 match the cabinet record.
2. Verify the connection to AO16HART processor before applying operating power.
3. Check the product function: marshals analog control outputs to smart final elements.
4. Simulate or apply a controlled signal for control-valve positioner outputs.
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 AO16HART processor pairing on MC-TAOY25?

Use the MC-TAOY25 technical limit or configuration stated for AO16HART processor pairing, then verify it at the installed channel before service.

What must be checked for size-B footprint on MC-TAOY25?

Treat size-B footprint as a product-specific commissioning point and compare the field condition with the Honeywell hardware configuration.

Which system detail controls output-loop polarity on MC-TAOY25?

The required check concerns output-loop polarity; confirm the connected hardware is the matched component listed for MC-TAOY25.

Why is it important to confirm valve-positioner HART access on MC-TAOY25?

For valve-positioner HART access, isolate the circuit, record its present configuration and apply the stated Honeywell limit before re-energization.

RETURN-TO-SERVICE CHECK

Confirm model MC-TAOY25, cabinet wiring, control-system channel assignment and the intended field response before releasing the equipment for production.