

# FC-UGAO01

## Universal Marshalling Analog Output Isolator

Isolated intrinsically safe analog-output signal

### PRODUCT SNAPSHOT

**BRAND**

Honeywell

**FAMILY**

Honeywell UMS Safety

**PART**

FC-UGAO01

**ORIGIN / HS**

USA / 8537101190

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## PRODUCT OVERVIEW

Isolated intrinsically safe analog-output signal

1

Performs the UMS analog-output isolator role

2

Supports SIL 2 safety applications

3

Provides an intrinsically safe field interface

4

Occupies one channel position in a 16-channel UMS assembly

## SYSTEM COMPONENTS

UMS Safety assembly

configured analog-output field loop

approved termination hardware

Safety Manager project and test record

### TECHNICAL NOTE

Confirm the UMS channel assignment, barrier/isolator type, loop polarity, field grounding and safety application proof-test procedure before energization.

TECHNICAL DATA

| PARAMETER        | VALUE                  |
|------------------|------------------------|
| Function         | Analog output isolator |
| Safety integrity | SIL 2                  |
| Intrinsic safety | IS                     |

| PARAMETER             | VALUE              |
|-----------------------|--------------------|
| Approval status       | TUV approved       |
| UMS assembly capacity | 16 channels        |
| Assembly size         | 137 x 140 x 198 mm |

ENGINEERING NOTE

Confirm the UMS channel assignment, barrier/isolator type, loop polarity, field grounding and safety application proof-test procedure before energization.

RELATED PRODUCTS ON APTER POWER

| MODEL        | SYSTEM ROLE                           | APTER POWER PAGE                       |
|--------------|---------------------------------------|----------------------------------------|
| 8C-TDOD51    | Related industrial automation product | <a href="#">View 8C-TDOD51 page</a>    |
| 38500143-200 | Related industrial automation product | <a href="#">View 38500143-200 page</a> |
| MC-PRHM01    | Related industrial automation product | <a href="#">View MC-PRHM01 page</a>    |
| TC-IDA161    | Related industrial automation product | <a href="#">View TC-IDA161 page</a>    |
| TC-HAO081    | Related industrial automation product | <a href="#">View TC-HAO081 page</a>    |
| 51306803-100 | Related industrial automation product | <a href="#">View 51306803-100 page</a> |
| 51305072-700 | Related industrial automation product | <a href="#">View 51305072-700 page</a> |
| 51304584-100 | Related industrial automation product | <a href="#">View 51304584-100 page</a> |

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### SIL 2 final-element command

Performs the UMS analog-output isolator role

### Hazardous-area analog actuation

Supports SIL 2 safety applications

### Universal marshalling cabinet build

Provides an intrinsically safe field interface

### Safety-loop output renewal

Occupies one channel position in a 16-channel UMS assembly

## PRODUCT PRECAUTIONS

- 1 Verify the complete FC-UGAO01 marking and its assigned UMS analog-output isolator position before work.
- 2 Place the connected process and control strategy in the approved maintenance state.
- 3 Isolate the applicable cabinet supply and analog-output field energy before disconnecting conductors.
- 4 Record terminal numbers, channel assignments, polarity, shields and configured ranges before removal.
- 5 Use ESD controls and protect the backplane connector, terminal hardware and coated electronics.
- 6 Confirm the installed UMS Safety assembly and carrier arrangement against the approved project.
- 7 Restore power in a controlled sequence and clear only diagnostics created by the maintenance activity.
- 8 Complete the approved SIL 2 loop proof test and retain the measured result before returning the channel to automatic service.

# ENGINEER FAQ

## Q1 Does FC-UGAO01 match UMS Safety assembly in a SIL 2 final-element command installation?

Verify the complete FC-UGAO01 marking, the documented Honeywell UMS Safety position and the installed UMS Safety assembly before fitting the assembly.

## Q3 Which Honeywell UMS Safety records should be captured before removing FC-UGAO01?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with FC-UGAO01 before disconnection.

## Q5 Which configured analog-output field loop condition should be checked when FC-UGAO01 reports an abnormal state?

Check the configured analog-output field loop supply, seating and connection first, then compare channel diagnostics with the recorded FC-UGAO01 baseline.

## Q7 What maintenance evidence is required after FC-UGAO01 is used for Universal marshalling cabinet build?

Retain the nameplate record, corrective action, final diagnostics and a controlled universal marshalling cabinet build functional-test result for FC-UGAO01.

## Q2 How should FC-UGAO01 be wired when it must performs the ums analog-output isolator role?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for FC-UGAO01; then continuity-test the affected path.

## Q4 What controlled test confirms that FC-UGAO01 can supports sil 2 safety applications?

Apply the approved field or simulated stimulus, observe the Honeywell UMS Safety indication and confirm the intended response without bypassing the normal interlocks.

## Q6 Can FC-UGAO01 be moved directly into Hazardous-area analog actuation without validating Safety Manager project and test record?

No. Confirm the Safety Manager project and test record, revision, connection scheme and Honeywell UMS Safety configuration before transferring FC-UGAO01 to that duty.

## Q8 How should FC-UGAO01 be returned to service in Safety-loop output renewal?

Restore power under control, verify provides an intrinsically safe field interface, exercise the intended signal path and release FC-UGAO01 only after the Honeywell UMS Safety remains in its approved operating state.

**SOURCE** Honeywell System Integrator Technical Updates | 2023 Q4

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