

# C7076A1015

## Ultraviolet Flame Detector

Honeywell C7076A1015 is a self-checking ultraviolet flame detector for burner flame-safeguard systems. It senses burner UV radiation and supplies the signal to a compatible flame amplifier.

### PRODUCT SNAPSHOT

**BRAND**

Honeywell

**FAMILY**

Honeywell burner flame safeguard

**PART**

C7076A1015

**ORIGIN / HS**

USA / 8537101190

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# PRODUCT OVERVIEW

Honeywell C7076A1015 is a self-checking ultraviolet flame detector for burner flame-safeguard systems. It senses burner UV radiation and supplies the signal to a compatible flame amplifier.

1

Detects ultraviolet radiation from a burner flame

2

Uses a self-checking shutter for flame-safeguard supervision

3

Feeds the compatible flame amplifier

4

Supports adjustable detector sensitivity

## SYSTEM COMPONENTS

R7476A1007 or R7886A1001 amplifier

7800 Series flame safeguard

One-inch NPT sight pipe

100 Vac detector supply

## TECHNICAL DATA

| PARAMETER          | VALUE      |
|--------------------|------------|
| Supply             | 100 Vac    |
| Frequency          | 50/60 Hz   |
| Process connection | 1 inch NPT |
| Lead               | None       |

| PARAMETER             | VALUE                  |
|-----------------------|------------------------|
| Ambient temperature   | -40 to 160 degF        |
| Shutter               | Yes                    |
| Sensitivity           | Adjustable             |
| Compatible amplifiers | R7476A1007; R7886A1001 |

### SYSTEM CONNECTION AND ACCEPTANCE RECORD

| RECORD ITEM                | DOCUMENTED ASSIGNMENT                             |
|----------------------------|---------------------------------------------------|
| Installed host / carrier   | R7476A1007 or R7886A1001 amplifier                |
| Companion hardware         | 7800 Series flame safeguard                       |
| Field connection           | One-inch NPT sight pipe                           |
| Primary system function    | Detects ultraviolet radiation from a burner flame |
| Controlled acceptance duty | Industrial burner flame proving                   |

### TECHNICAL NOTE

Mount the detector with an unobstructed flame view, keep detector wiring separated from ignition conductors and prove flame response plus self-check shutter operation through the safeguard controller.

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### Industrial burner flame proving

Detects ultraviolet radiation from a burner flame

### Boiler combustion supervision

Uses a self-checking shutter for flame-safeguard supervision

### Furnace burner management

Feeds the compatible flame amplifier

### Process-heater flame detection

Supports adjustable detector sensitivity

## PRODUCT PRECAUTIONS

- 1 Verify the complete C7076A1015 marking and its assigned Honeywell burner flame safeguard position before work.
- 2 Isolate the energy associated with R7476A1007 or R7886A1001 amplifier before disconnecting C7076A1015.
- 3 Protect the C7076A1015 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found 7800 Series flame safeguard connections and configured assignment before replacement.
- 5 Confirm One-inch NPT sight pipe matches the approved installation record for C7076A1015.
- 6 Restore C7076A1015 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for industrial burner flame proving before release.

# ENGINEER FAQ

## Q1 How is C7076A1015 identified before installation in a Honeywell burner flame safeguard cabinet?

Match the full C7076A1015 marking and part number C7076A1015 to the assigned position and installed R7476A1007 or R7886A1001 amplifier.

## Q2 Which companion hardware must be checked when replacing C7076A1015?

Verify R7476A1007 or R7886A1001 amplifier, 7800 Series flame safeguard and One-inch NPT sight pipe against the approved cabinet and project record before fitting the Ultraviolet Flame Detector.

## Q3 What wiring information should be recorded before removing C7076A1015?

Record terminal identifiers, polarity or phase, shields, cable tags and the as-found channel or port assignment for C7076A1015.

## Q4 How should engineers validate C7076A1015 after configuration?

Restore the documented Honeywell burner flame safeguard assignment, review diagnostics and run a controlled test of its role: detects ultraviolet radiation from a burner flame.

## Q5 Can C7076A1015 be moved to a different slot or duty without review?

No. Confirm keying, companion hardware and the approved configuration before assigning C7076A1015 to another position or function.

## Q6 Which technical value is especially important during C7076A1015 commissioning?

Verify Supply is 100 Vac and use the named manufacturer procedure for the controlled functional test.

## Q7 What should be checked if C7076A1015 does not support boiler combustion supervision after installation?

Check seating, 7800 Series flame safeguard, One-inch NPT sight pipe, field energy and the model-specific diagnostics before replacing additional hardware.

## Q8 What evidence should be retained after C7076A1015 returns to service?

Retain the full model identity, as-left connections, configuration, diagnostic result and the final controlled test record for industrial burner flame proving.

**SOURCE** Honeywell C7076 Ultraviolet Flame Detector Reference Guide | 70-8317-01

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