

# AUD300C

## Advanced Ultraviolet Detector

The AUD300C is a flame detector designed to sense the ultraviolet radiation from an oil or gas burner flame. This unit is used in combination with the dedicated AUR400C/450C or AUR300C/350C. Any malfunction that has occurred in the UV detector or UV relay can be detected by the continuous and highly accurate dynamic self-check function of the built-in shutter driven by the relay, ensuring extremely reliable combustion safety control.



### Specifications

Applicable flames	City gas, natural gas, propane gas, kerosene, heavy oil, coke oven gas, hydrogen, chlorine, ammonia, naphtha, ethylene, etc.
Shutter voltage	Approx. 24Vdc (supplied from AUR UV relay)
Self-checking cycle	Approx. 75 cycles/min
Ambient temperature	-20 to +100°C
Storage temperature	-20 to +70°C
Storage humidity	90% RH at 40°C (no condensation allowed)
Pressure resistance for flange	350kPa
Protective structure	IP66 (not including wiring conduit port)
Mounting direction	-45° to +90° (in vertical direction)
Mounting	G1 (at the mounting section for sighting pipe)
Lead wires	AWG18, heat-resistant silicone, 4 wires, 2.4m, colored
Wiring conduit	1/2-14NPSM
Flame signal wire requirements and extension distance	Requirements: 600V vinyl insulation wires, IV wires at least 2.0 mm <sup>2</sup> , max. 200m long
Materials	Housing: heat-resistant resin (PPS + PPE + GF40)
Housing color	Purple
Mass	Approx. 630g
UV tube effective service life	Replace after 25,000 hours of use or the lifetime specified on the UV tube (3 years).

### Selection Guide

Model No.	Description
AUD300C2100	Advanced ultraviolet detector
AUD300C210D	Advanced ultraviolet detector with inspection data

### Accessories (sold separately)

Model No.	Description
81446925-002	Cover
81409780-001	Bushing 1 x 3/4
FSP136A100	Analog flame meter
AUD10C2100	Tube unit (replacement part)
AUD50A2100	Shutter unit (replacement part)
AUD60A2100	Maintenance kit (AUD10C/AUD50A set)

### Dimensions

(Unit: mm)

