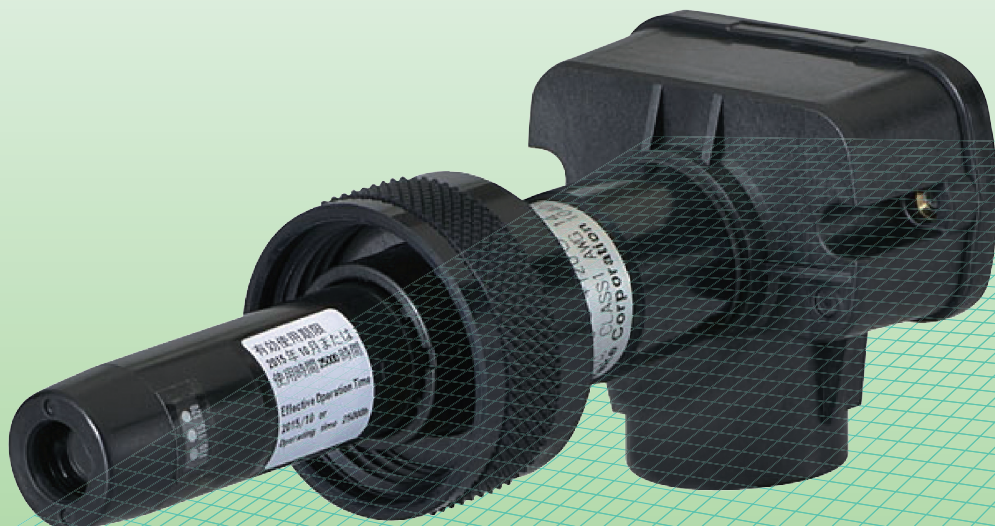




AUD100 Series Advanced Ultraviolet Flame Detector

Introducing a New azbil Flame Detector for Batch Operation With Improved Usability, Longer Life, and Higher Reliability

This flame detector is designed exclusively for use in batch operations and incorporates a UV sensor produced by azbil's proprietary manufacturing processes and approved by our strict inspection standards.



AUD15 Tube Unit



Development of this new azbil UV sensor was based on experience gained from our AUD300 Series Flame Detector for continuous operation

- The compact AUD15 is built into a molded package for easier handling, eliminating the need for an aluminum cover.
- The AUD15's service life is 5 years, a significant increase from the previous model's 3 years, thanks to enhanced reliability (total operating hours: 25,000).
- The AUD15 can be used as a replacement for our existing ultraviolet batch operation sensors.

AUD100/110/120 Socket



Retention force has been increased to reduce any looseness caused by repeated plugging and unplugging, providing enhanced reliability when used with the tube unit.

- The AUD100 is a lead-wire model and can operate in high temperature environments up to 120°C.
- The AUD110 is a terminal-block model allowing for direct cable connections, eliminating the need to use a relay box.
- The AUD120 can be mounted on a 1/2" monitoring pipe. It is suitable for small mounting space.
- Tube units for all models are replaceable.

AUD15 Close-Up



AUD100/110/120 Specifications

Item	Description			
Applicable type of fuel ¹	City gas, natural gas, propane gas, kerosene, heavy oil, coke oven gas, hydrogen, chlorine, ammonia, naphtha, ethylene, etc.			
Mass	AUD100C	AUD110C	AUD120C120_	AUD120C121_
	Approx. 120 g (with the AUD15: approx. 140 g)	Approx. 120 g (with the AUD15: approx. 140 g)	Approx. 130 g (with the AUD15: approx. 150 g)	Approx. 140 g (with the AUD15: approx. 160 g)
Materials	Aluminum	Socket: Aluminum Terminal block: Heat-resistant resin (PBT + GF30)(black)	Aluminum	
Ambient temperature	-20 to +120 °C			
Ambient storage temperature	-20 to +70 °C			
Ambient humidity	90 % RH at 40 °C (without condensation)			
Allowable pressure	35 kPa			
Protection	IP65 (JIS C 0920/IEC 60529) with pipes and wires connected			
Mounting nut	G1 (R1 and 1-11BSP are connectable)			
Lead wires	AWG #18 (approx. 1.2 mm ²) flame retardant cross-linked polyethylene insulated cable, approx. 1800 mm long (blue and white) (for the AUD100C/120C only)			
Conduit	G1/2 (1/2-14BSP is connectable). Not for use with AUD120C120_			
Flame signal wire	Standard: 2.0 mm ² , 600 Vac cable with PVC insulation ("IV cable"). Max. length: approx. 200 m			

¹1. For applications using coke oven gas, hydrogen, chlorine, ammonia, naphtha, ethylene, etc., in which the burner structure may impose restrictions on the mounting of the flame detector, it is necessary to check that flame monitoring is reliable.

Please read the "Terms and Conditions" from the following URL before ordering or use:

<http://www.azbil.com/products/bi/order.html>

AUD is a registered trademark of Azbil Corporation in Japan.
Other product names, model numbers and company names may be trademarks of the respective company.

Azbil Corporation
Advanced Automation Company

Yamatake Corporation changed its name to Azbil Corporation on April 1, 2012.

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URL: <http://www.azbil.com>

1st Edition: Issued in Jun. 2011-Y
4th Edition: Issued in Jun. 2013-AZ

Model No.

	Name	Model No.
Advanced Ultraviolet Flame Detector	Lead-wire model without the AUD15	AUD100C100_
	Lead-wire model with the AUD15	AUD100C1000-A15
	Terminal block model without the AUD15	AUD110C100_
	Terminal block model with the AUD15	AUD110C1000-A15
	Without G1/2 conduit adapter. AUD15 sold separately.	AUD120C120_
	With G1/2 conduit adapter. AUD15 sold separately.	AUD120C121_
Tube Unit (ultraviolet photoelectric tube)		AUD15C1000

Replace the blank (_) in the model number with one of the four choices below.

0: Standard

D: Inspection certificate

T*: Tropicalization treatment

B*: Inspection certificate + Tropicalization treatment

* Only AUD110 Series

Maintenance / Optional parts

Name	Model No.
Seal adapter	81403159
G1/2 Adapter (G1/2 → G1 conversion)	FSP100R15000
Flame simulator	FSP300C100
Lens unit (the focal distance 70 mm)	FSP100L70000
Lens unit (the focal distance 70 mm) + Inspection certificate	FSP100L7000D
Lens unit (the focal distance 30 mm)	FSP100L30000
Lens unit (the focal distance 30 mm) + Inspection certificate	FSP100L3000D

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