

# azbil

## Are you using ProtectoRelay model RA890? Easily upgrade to the new burner controller, model AUR890!

The new burner controller, model AUR890, is a combustion safety device for batch operation that was developed specifically to replace model RA890. If you use the replacement base unit, you can keep your existing wiring when upgrading.

### Discontinued products

Discontinuation date: April 2015



ProtectoRelay: Model RA890



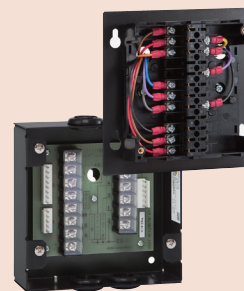
Sub-base: Model Q270



### Replacement burner controller: Model AUR890



Burner controller (main unit):  
Model AUR890



Replacement base unit: Model Q890A  
(sub-base [model BC-R05] is not necessary)

#### Replacement chart

Flame Detector	Model No.	Power
Flame Rod	RA890F1460X2	100 V AC
	RA890F1411X2	100 V AC
	RA890F1452X2	208 V AC
	RA890F1296X2	208 V AC
	RA890F1304	220 V AC
Advanced UV Sensor model AUD100	RA890G117X2	100 V AC
	RA890G1278X2	208 V AC
	RA890G1302	220 V AC
Replacement Base Unit	Q890A100	—

Flame Detector	Model No.	Power
Flame Rod	AUR890F110-1	100 V AC
	AUR890F130-1	100 V AC
	AUR890F210-1	200 V AC
	AUR890F230-1	200 V AC
	AUR890F610-1	220 V AC
Advanced UV Sensor model AUD100	AUR890G130	100 V AC
	AUR890G230	200 V AC
	AUR890G630	220 V AC

## Features of model AUR890

**Easy trial operation and inspection**  
**Easier troubleshooting**

**Easily check sequences and alarm states**

**Abundance of useful functions**

**7-segment LED**

1. Sequence
2. Flame voltage
3. Alarm codes

**Contact reset input**

Alarms can be reset without opening the unit's door.

**DISP switch**

For changing display mode

**RESET switch**

For alarm deactivation

**Alarm LED (red)**

Lit during lock-out

**Flame LED (green)**

Lit when flame is detected

**Flame voltage external output**

Easy DC 0–5 V measurement (from front connector )



### Example of upgrade using the replacement base unit



Remove RA890 from the Q270A base.



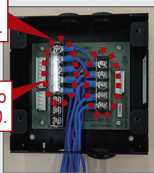
Remove wiring from Q270A.



Remove Q270A.

Terminal positions are the same as for RA890.

Terminal numbers also match model RA890.



Mount the Q890A base and connect the wires.



Attach the Q890 connector.



Fasten the four screws.



Attach the AUR890 to the base.

For details, see the user's manual (No. CP-SP-1380E).

Please read "Terms and Conditions" from the following URL before ordering and use.  
<https://www.azbil.com/products/factory/order.html>

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

[Notice] Specifications are subject to change without notice.  
No part of this publication may be reproduced or duplicated without the prior written permission of Azbil Corporation.

**Azbil Corporation**  
Advanced Automation Company

1-12-2 Kawana, Fujisawa  
Kanagawa 251-8522 Japan

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

1st Edition : Jan. 2020-AZ  
4th Edition : Jun. 2020-AZ