

# AUR350C

## Advanced Ultraviolet Relay with Communications



The AUR350C Advanced UV Relay with Communications is a safe combustion controller with a dynamic self-checking function, and is used in combination with the AUD300C Advanced UV Sensor.

By driving the shutter of the AUD300C, the AUR300C checks itself and the AUD300C for faulty operation while controlling the flame relay.

If a fault occurs in the flame detection circuit of the AUD300C or AUR350C, the AUR350C turns OFF the flame relay to ensure operational safety. Since the AUR350C tracks data on flame voltage, shutter on-off cycles, etc., flame voltage trends can be viewed on a PC monitor.

### Specifications

<b>Compatible flame detector</b>	AUD300C, AUD500C
<b>Flame response time</b>	For 3V flame voltage, nominal 1.5s (max. 2s) or nominal 3s (max. 4s), selectable by model No.
<b>Flame sensitivity (at room temperature and humidity with rated voltage)</b>	<ul style="list-style-type: none"> <li>For nominal 3s flame response time model Ignition detection: at or before flame voltage increase to 1.2Vdc Flame failure detection: at or before flame voltage drop to 0.6Vdc However, in normal operation the voltage is 1.5 to 4.0Vdc.</li> <li>For nominal 1.5s flame response time model Ignition detection: at or before flame voltage increase to 1.7Vdc Flame failure detection: at or before flame voltage drop to 0.6Vdc However, in normal operation the voltage is 2.0 to 4.0Vdc.</li> </ul>
<b>Recommended flame voltage</b>	<ul style="list-style-type: none"> <li>For nominal 3s flame response time model 1.5Vdc min. in stable state</li> <li>For nominal 1.5s flame response time model 2.0Vdc min. in stable state</li> </ul>
<b>Flame voltage output</b>	0 to 5Vdc (at normal operation)
<b>Power</b>	100Vac or 200Vac, 50/60Hz (selectable by model)
<b>Power consumption</b>	10W max. (including AUD300C)
<b>Service life</b>	7 years or 100,000 cycles (total cycles from all load outputs)
<b>Communications</b>	RS-485
<b>Ambient temperature</b>	-20 to +60°C
<b>Storage temperature</b>	-20 to +70°C
<b>Ambient humidity</b>	90% RH at 40°C (no condensation allowed)
<b>Mounting</b>	Wall mounting (vertically or horizontally)
<b>Color</b>	White
<b>Mass</b>	Approx. 1.2kg

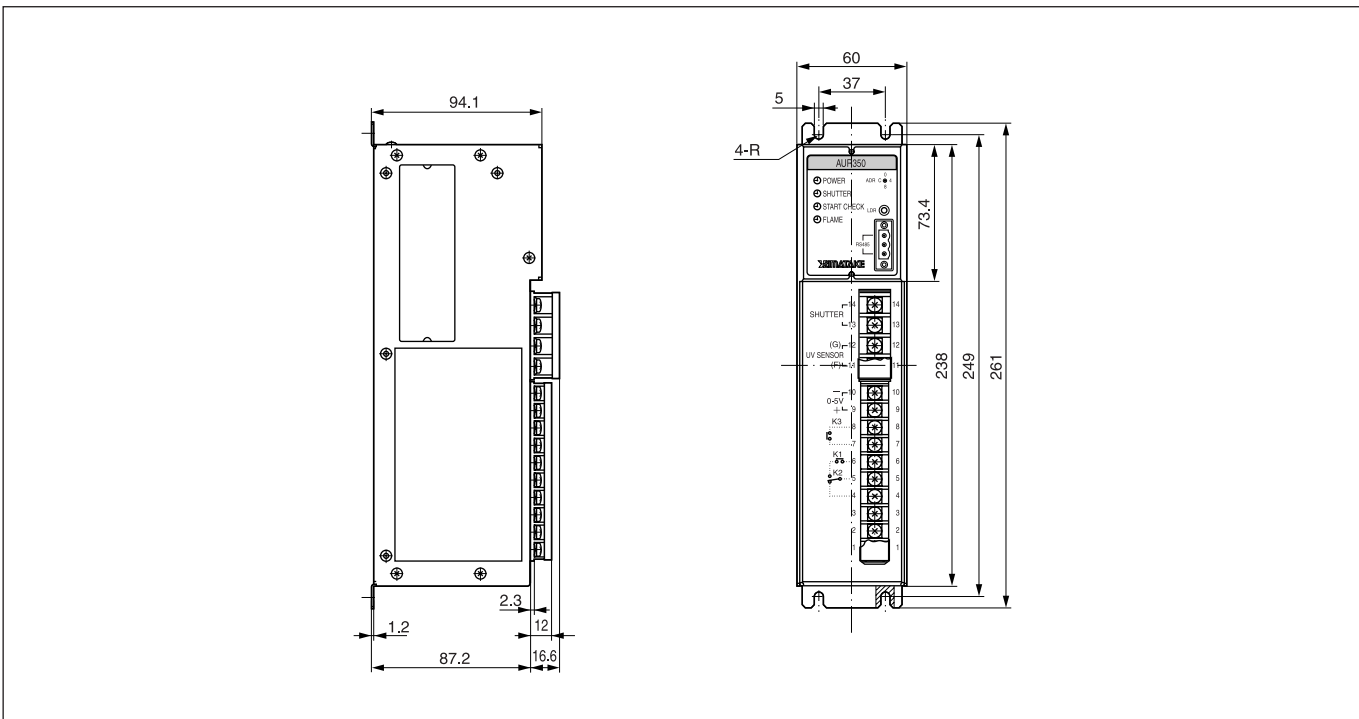
### Selection Guide Example: AUR350C12100

Segment	Model No. selection		Description
I	Basic No.	<b>AUR350C</b>	Advanced ultraviolet relay with communications function
II	Function	<b>1</b>	(Fixed)
III	Flame response	<b>2</b>	Nominal 1.5s
		<b>3</b>	Nominal 3s
IV	Power	<b>1</b>	100Vac 50/60Hz
		<b>2</b>	200Vac 50/60Hz
V	Options	<b>00</b>	None
		<b>D0</b>	With inspection data
		<b>T0</b>	Tropicalization
		<b>DT</b>	Tropicalization + inspection data

### Accessories (sold separately)

Model No.	Description
<b>SLP-A00J50</b>	Smart Loader Package with cable
<b>SLP-A00J51</b>	Smart Loader Package without cable
<b>83968019-001</b>	Surge absorber
<b>FSP136A100</b>	Analog flame meter

### Dimensions (Unit: mm)



FLAME SAFEGUARD CONTROLS