AUR450C

Dynamic Self-Checking Burner Controller with Communications Function

The AUR450C is a burner controller with a dynamic self-checking function, and is used in combination with the AUD300C or AUD500C Advanced Ultraviolet Detector.

The AUR450C is a flame safeguard controller that automatically and safely executes ignition sequences and reliably monitors gas and oil burners. The AUR450C includes a 7-segment display and communications function.

Specifications

Compatible flame detector	AUD300C, AUD500C				
Sequence timing (at room temperature and humidity with rated voltage)	Sequence at flame failure No repetition of cycle	Ignition trial 4 ± 1s or 8 ± 2s, selectable by model	Pilot only 7.5 ± 2.5s	Main trial 7 ± 3s	Flame response 3 ± 1s Nominal 3s (4s max.). Nominal 1.5s (2s max.).
Flame sensitivity (at room temperature and humidity with rated voltage)	• 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. • 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.				
Recommended flame voltage	• For nominal 3s flame response time model 1.5Vdc min. in stable state • For nominal 1.5s flame response time model 2.0Vdc min. in stable state				
Flame voltage output	0 to 5Vdc (in normal operation)				
Power	100Vac or 200Vac, 50/60Hz (selectable by model)				
Power consumption	15W max. (including AUD300C)				
Service life	7 years or 100,000 cycles (total cycles from all load outputs)				
Communications	RS-485				
Ambient temperature	Stand-alone: -20 to +55°C Gang-mounted: -20 to +45°C				
Storage temperature	-20 to +70°C				
Ambient humidity	90% RH at 40°C (no condensation allowed)				
Mounting method	Plugs in to a dedicated subbase, model Q241A104 (sold separately)				
Mounting direction	Vertical, with flame voltage terminals underneath				
Color	Black				
Mass	Approx. 830g (including subbase)				

Selection Guide I II III IV V VI   Example:AUR450C4121000

Segment	Model No. selection		Description
I	Basic No.	AUR450C	Dynamic self-checking burner controller with communications function
II	Ignition trial	4	4 ± 1s
		8	8 ± 2s
III	Function	1	(Fixed)
IV	Flame response	2	Nominal 1.5s
		3	Nominal 3s
V	Power	10	100Vac 50/60Hz
		20	200Vac 50/60Hz
VI	Options	00	None
		D0	With inspection data

Accessories (sold separately)

Model No.	Description
Q241A104	Subbase
83968019-001	Surge absorber
81446848-001	Communications connector
SLP-A00J50	Smart Loader Package with cable
SLP-A00J51	Smart Loader Package without cable
FSP136A100	Analog flame meter

Dimensions   (Unit: mm)

Note) When dismounting the main body. pull it out while tilting it as shown in the drawing.