

Advanced Ultraviolet Barner Controller | AUR350C/300C

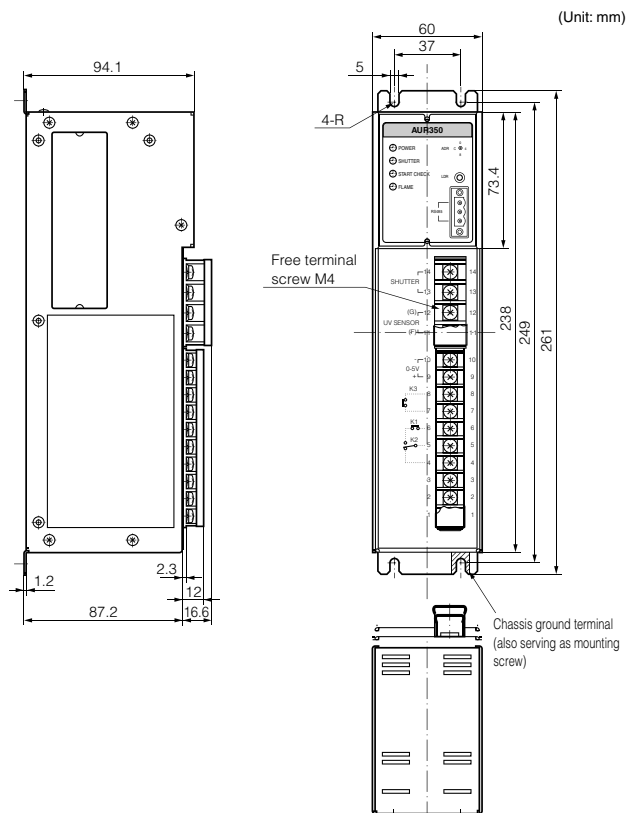
The AUR350C/AUR300C Advanced Ultraviolet Barner Controller is a flame monitor with a dynamic self-checking function for continuous operation and batch operation. It is used in combination with the AUD300C Advanced Ultraviolet Flame Detector or the AUD500C Explosion-Proof Advanced Ultraviolet Flame Detector. It does not have an ignition function. The ignition function is provided by configuring an instrumentation circuit with manual operation and safety taken into consideration, in order to ensure safe combustion. In addition, as the AUR350C is equipped with a communication function (RS-485), it is capable of supporting a variety of applications in combination with a PC and a display.



Specifications

Compatible flame detectors	AUD300, AUD500	
Flame response time (At a flame voltage of 3 V)	Nominal 1.5 s (max. 2 s), nominal 3 s (max. 4 s) (selected by model No.)	
Flame voltage range (at standard temp. and humidity and rated voltage)	With flame: 1.5 to 4.0 Vdc Without flame: 0.0 to 0.6 Vdc	
Recommended flame voltage	Stable 2.0 Vdc or more	
Flame voltage output	0 to 5 V (in normal condition)	
Rated power supply voltage	100 Vac or 200 Vac 50/60 Hz	
Allowable voltage range	85 to 110% of rated supply power voltage	
Power consumption	10 W max (including AUD300C)	
Dielectric strength	1,500 Vac 50/60 Hz for 1 min or 1,800 Vac 50/60 Hz for 1 s Voltage-applied location: Between ground and 1 to 8 primary terminals (excluding terminals No. 9 to 14)	
Insulation resistance	At least 100 MΩ with a 500 Vdc megger Measurement location: Between ground and 1 to 8 primary terminals (excluding terminals No. 9 to 14)	
Induction lightning surge	10 kV, 1.2/50 μs (JEC-187 surge impedance 75 Ω or more) Connect the following surge absorber between one side of supply power (No.1 terminal) and ground. Recommended surge absorber: part No. 83968019-001	
Operating life	7 years or 100,000 operations (number of actions of each relay)	
Communication * AUR350C only	Signal level	RS-485 compliant
	Transmission line	Multi-point (max. 15 units per host)
	Communication protocol	Half-duplex
	Synchronization method	Start/stop synchronization
	Transmission control	Polling/selecting method (CPL communication format)
	Maximum cable length	Max. 500 m
	Number of communication lines	3
	Communication speed error	0.16%
	Terminal resistor	150 Ω
	Transmission speed	2,400, 4,800, 9,600, 19,200 bps
	Data length	8 bits
	Stop bit length	1 bits
	Parity bit	Even parity or no parity
Allowable ambient temperature	-20 to +60 °C	
Storage temperature	-20 to +70 °C	
Allowable humidity	90%RH at 40 °C (without condensation)	
Vibration resistance	4.9 m/s ² or less (10 to 55 Hz for 2 hours in each in X, Y, and Z directions)	
Mounting posture	Wall surface mounting (vertical or horizontal mounting)	
Paint color	White	
Weight	Approx. 1.2 kg	

External dimensions



Model No. configuration

Ex.: AUR350C12100

Basic model No.	Spare part	Flame response time	Power supply	Addition	Description
AUR350C					Advanced Ultraviolet Barner Controller with communication function
AUR300C					Advanced Ultraviolet Barner Controller
	1				—
		2			Nominal 1.5 s
		3			Nominal 3 s
			1		100 Vac type
			2		200 Vac type
				00	No additional treatment
				D0	Inspection results included
				T0	Tropical treatment
				DT	Inspection results included + tropical treatment
				Y0	Traceability certificate included

Optional parts (sold separately)

Name	Model No.
Smart Loader Package (with cable)	SLP-A00J50
Smart Loader Package (without cable)	SLP-A00J51
Surge absorber	83968019-001
Analog flame meter	FSP136A100