SANYO DENKI

SANYO DENKI San Ace PWM Controller



First PWM Controller by Fan Manufacturer

September 22nd, 2016

Cooling Systems Division Sanyo Denki America, Inc.

Products Highlights

- First PWM Controller released by SANYO DENKI
- Reduces system power consumption and fan noise
- Up to four PWM-input fans can be connected
- Can be powered by the fan power supply at rated voltages of 12, 24, and 48 VDC

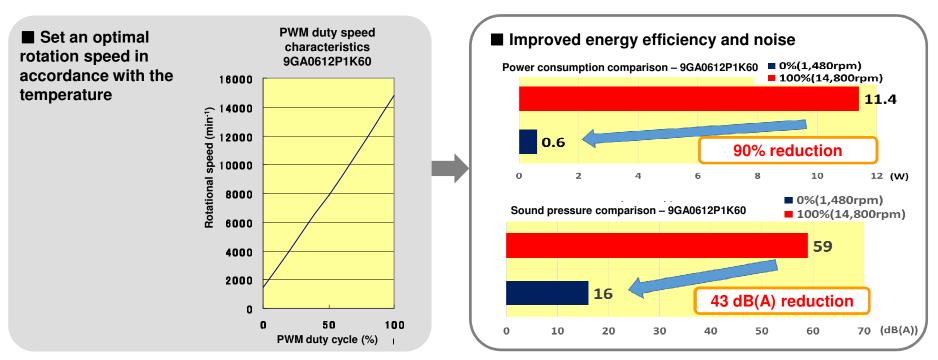
First PWM Controller by SANYO DENKI

- Newly designed PWM signal generator to control the speed of PWM control fans
- Box type and PCB type
- Control the PWM duty with DC voltage, variable resistor (internal / external), or thermistor



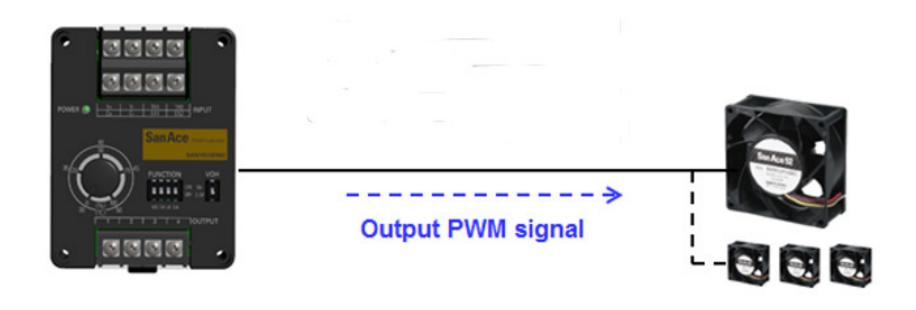
Reduce System Power Consumption & Fan Noise

- ■PWM control function controls the rotational speed of the fan by varying the duty cycle.
- Running the fan at low speeds while the device is on standby reduces both noise and power consumption.



Up to 4 PWM-Input Fans Connected

 Up to four PWM-input fans can be connected to each controller, without requiring a costly function generator



Powered by the Fan Power Supply

- Powered by the fan power supply at rated voltages of 12, 24, and 48 VDC
- No separate power supply required

Target Customers

- Customers who do not have capability/time to design a PWM signal generator
 - Small to medium size customers
 - R&D Departments and/or Laboratories in large customers

Specifications 1

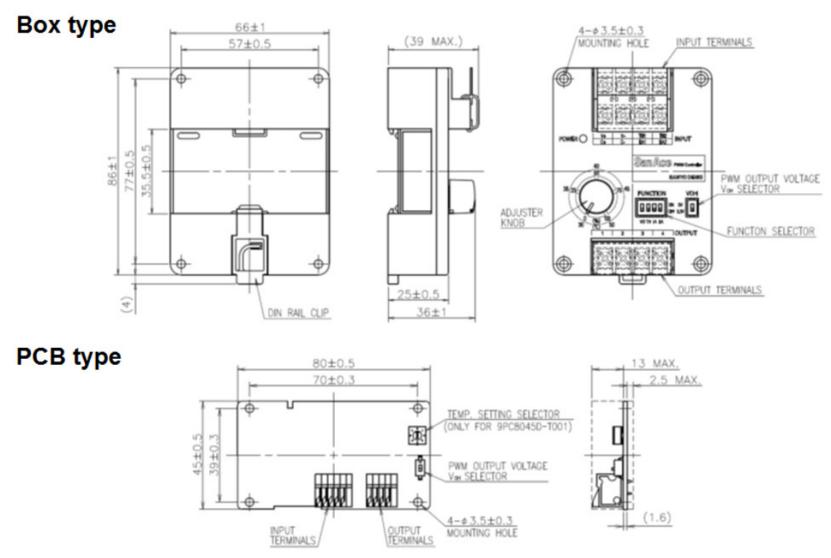
□Specifications

	BOX Type	PCB Type		
Model no.	9PC8666X-S001	9PC8045D-V001	9PC8045D-R001	9PC8045D-T001
Size [mm]	86 (H) × 66 (W) × 38 (D)	80 (H) × 45 (W) × 17 (D)		
Rated voltage [VDC]	12, 24, and 48			
No. of connectable fans	Up to 4 fans			
Control functions	Dial, voltage, variable resistor, and thermistor controls*	Voltage control	Variable resistor control*	Thermistor control*

^{*} Variable resistor and thermistor are not supplied with the controller and need to be prepared separately.

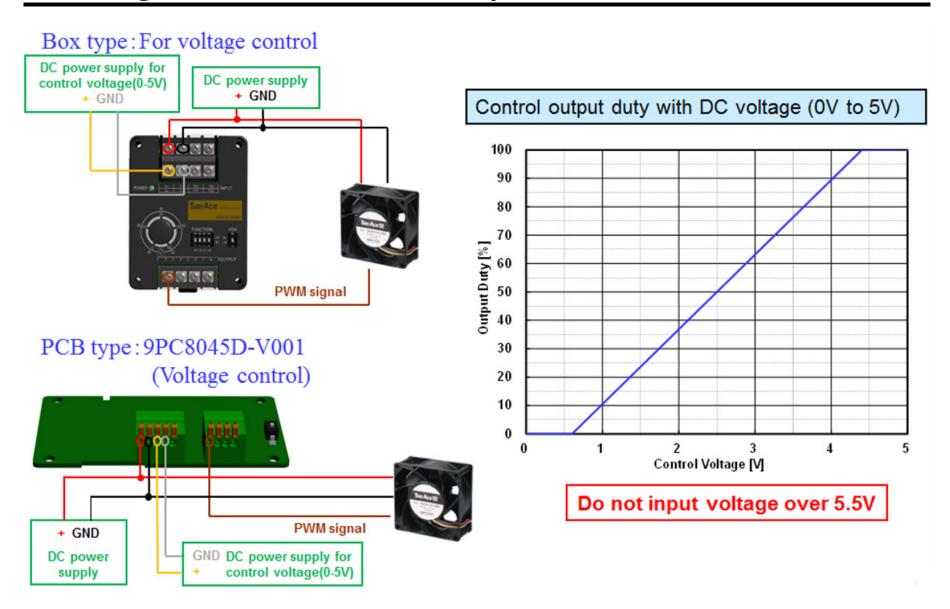
Specifications 2

□Dimensions



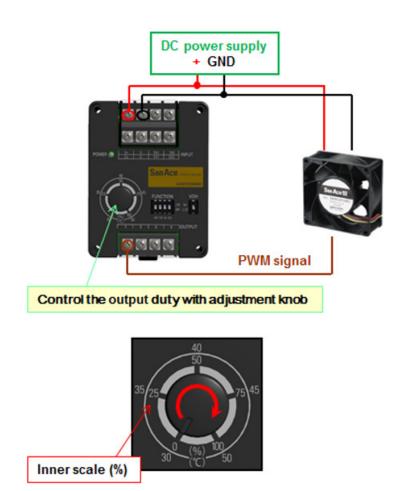
SANYO DENKI AMERICA, INC.

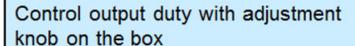
Voltage Control Example

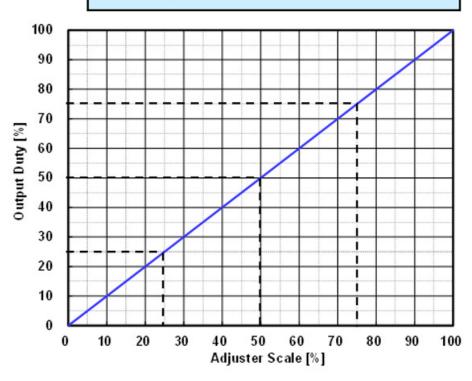


Variable Resistor Control (internal) Example

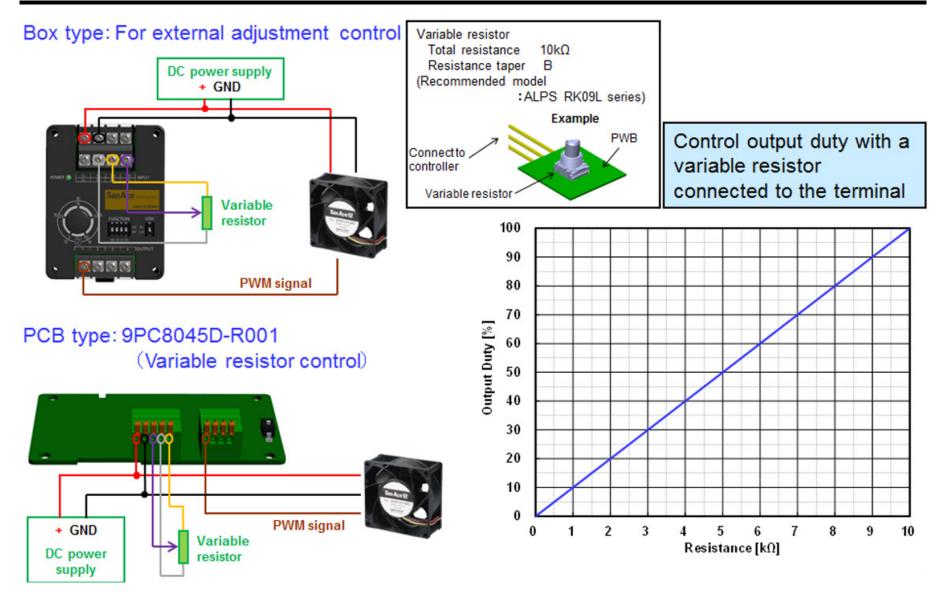
Box type: For internal adjustment control



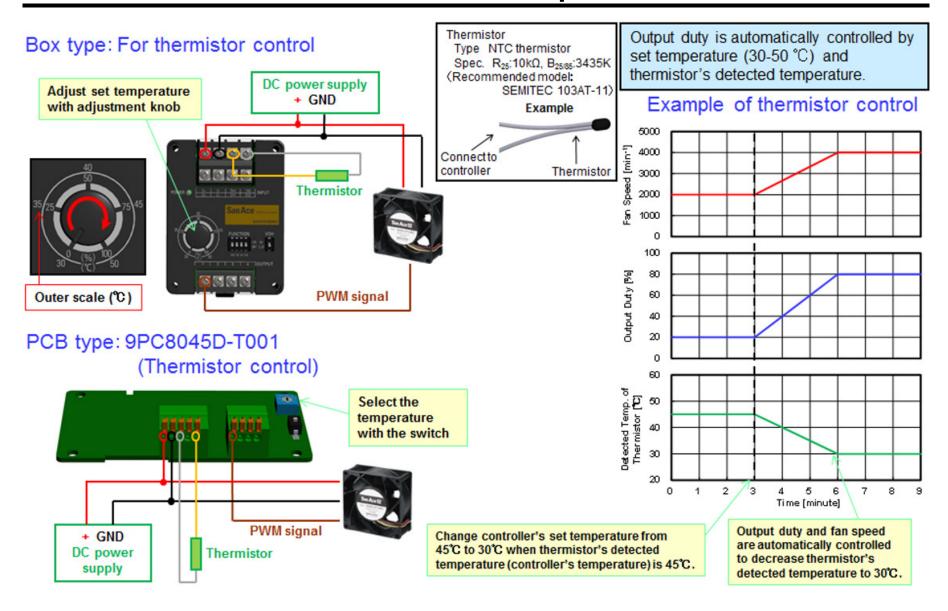




Variable Resistor Control (external) Example



Thermistor Control Example



Miscellaneous

- The controller can only be used on fans with 25 kHz PWM input and V_H of 3.3 or 5 VDC.
- •cUL and TUV will be acquired in December 2016.