San Ace Controller

Features

Preventive maintenance of equipment (IoT functionality)

- \cdot Easy to connect to user's terminal devices. (Wireless LAN / wired LAN)
- Enables users to monitor the status of fans and sensors from remote terminal devices.
- Enables users to control the fan speed remotely via terminal devices.
- \cdot Detects outlier sensor measurements and sends alerts.
- Saves the fan's cumulative operating time and other fan measurement data to the cloud for later use.
- Prevents heat problems with user equipment, contributing to reducing maintenance time and costs.

Low noise and high energy efficiency (Automatic control)

- Stores temperature, humidity, and air pressure measurements for automatic fan speed control based on the setting conditions.
- Makes fan cooling and ventilation more efficient, reducing noise and improving efficiency.

Optimized fan settings (Manual control)

- · Can connect and control a maximum of four fans, enabling different speed settings for individual fans.
- Optimizes the airflow and static pressure of individual fans in multi-fan systems.

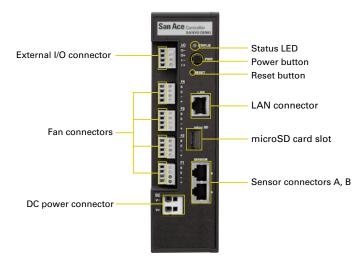


Specifications

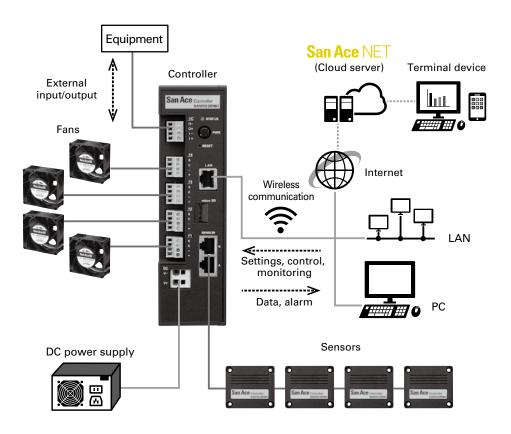
		With wireless LAN	Without wireless LAN	With wireless LAN, cUL certified		
Model no.		9CT1-001	9CT1-002	9CT1-U001 ⁽¹⁾		
Rated voltage [VDC]		12/24/48		12/24		
Power consumption [W]		3.1 ⁽²⁾				
Max. input power		970 W or less		64 W or less (At 12 VDC) 100 W or less (At 24 VDC)		
Operating voltage range [VDC]		7 to 60		7 to 27.6		
Operating temperature range [°C]		-20 to +70				
Control functions		Manual / automatic				
Control signal		PWM signal High-level voltage (V _{он}): 3.3/5 V Frequency: 25 kHz				
Monitoring criteria		Fan speed, fan current, fan operation hours, sensor detection value, external input				
No. of connectable fans		Max. 4				
Max. fan connection terminal current (per terminal)		5 A		5 A (At 12 VDC) 4 A (At 24 VDC)		
Max. output current (Total)		20 A		5 A (At 12 VDC) 4 A (At 24 VDC)		
No. of connectable sensors		Max. 4				
Compatible sensors ⁽³⁾		Temperature / humidity, air pressure, acceleration				
External I/O functions	Input	Photocoupler-isolated input, ON: 15 to 28.8 VDC, OFF: 0 to 5 VDC				
	Output	Photocoupler-isolated open-collector output, load voltage: 28.8 VDC or less, output current: 0.1 A or less				
Communication	Wireless	IEEE 802.11b/g/n, frequency: 2.4 GHz ⁽⁴⁾	_	IEEE 802.11b/g/n, frequency: 2.4 GHz ⁽⁴⁾		
	Wired	Ethernet 10BASE-T, 100BASE-TX				
Size [mm]		50 (W) × 135 (D) × 180 (H)				
Mass [g]		450				
Material		Casing: Plastic				

(1) Use a UL Class 2 power supply. (2) For use of this product alone, at 20° C ambient temperature (3) Use our dedicated sensors (options). (4) Available channels: Ch. 1 to 11





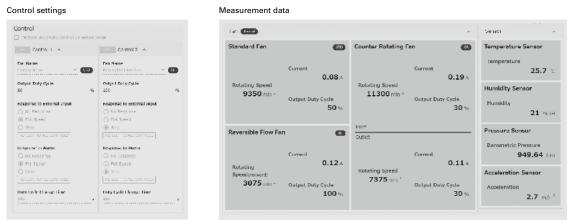
System Configuration



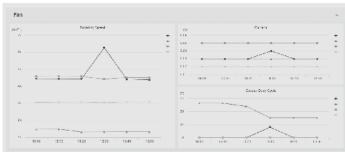
Graphical User Interface (GUI) Screens

Settings, control, monitoring, and data download can be done through web browsers.

Sample screens



Graphs



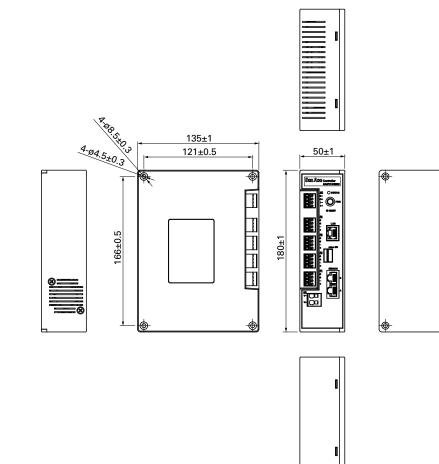
Alarms

No 1 Trad	Dele	
1 fan Retationel Social	2010/02/01 05 22-26	GILME
en kommene i konsel		* [4] [4] (5) (4)
ro fan Robborg I Sowel		10.0450
et work talanet Kreat		a fel fellinise
FL Res Current	2010/02/01 09:29:26	SULTANE.
2 lan Carlot		MILNE
D The Current		STUDASE
n lan Carant		
HI HAN CARTELINGT		
12 Tan Overcurrent		VELEXSE
ed sea file a consta		
De Des Colemanders		In rate

۲

۲

Dimensions (unit: mm)



Options

Sensors

- 0013013					
Sensor type	Temperature / Humidity sensor	Air pressure sensor	Accelerometer		
Model no.	9CT1-T	9CT1-P	9CT1-A		
Measurement range	Temperature: -20 to +70°C Humidity: 20 to 85% RH ⁽¹⁾	Air pressure: 800 to 1100 hPa	Acceleration: 0 to 60 m/s ^{2 (2)}		
Operating temperature range [°C]	-20 to +70				
Operating humidity range [% RH]	20 to 85 ⁽¹⁾				
Size [mm]	53 (W) × 46 (D) × 22 (H)				
Mass [g]	35				
Material	Casing: Plastic				



(1) Non-condensing (2) Total acceleration from three axes

• Dimensions (unit: mm)

