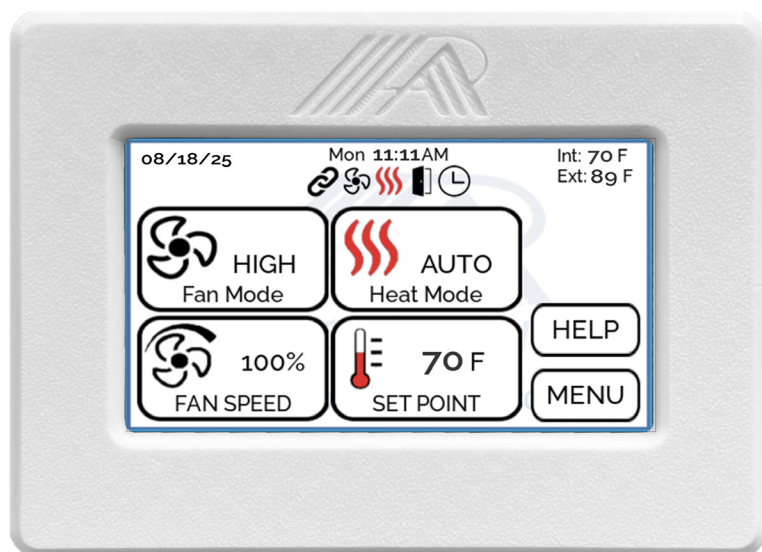


SmartTouch PRO Controller

Technical Data

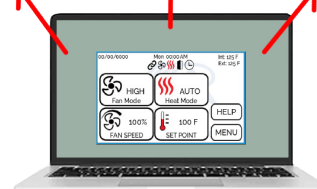
PRODUCT IMAGE



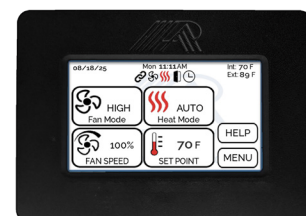
FEATURES AND KEY PRODUCT INFORMATION

- ▶ Web server connectivity, the SmartTouch Pro integrates seamlessly with a building's WiFi network, allowing remote access and control of the air curtain from any device connected to the server
- ▶ Complete Air Curtain control including fan speed, temperature, fan mode, heat and other functionality
- ▶ Capable of BACnet control and monitoring
- ▶ Temperature sensor for pinpoint readings that maximize air curtain effectiveness and active supplemental heat when programmed
- ▶ Lockable screen to unwanted adjustments/tampering
- ▶ Unit mounting in slim, low profile case
- ▶ Remote mounting connection via a standard Cat5 Ethernet cable or WiFi Network Integration
- ▶ Back-lit LCD illuminates upon touch for easy/instant visibility regardless of ambient lighting

ALTERNATE VIEWS



REMOTELY CONTROL AIR CURTAINS



APPLICATION NOTES

- CR2032 3V Lithium battery stores time settings in event of power failure
- Mirrored interface enables real-time adjustments to air curtain's operational functionality via computer, tablet, or smartphone-just as they would on physical controller.
- All screens (except home screen) feature back button to return to previous screen
- Remote mounting in standard, single gang electrical box
- Preset at factory to pair with air curtain and application requirements
- Screen indicators provide real-time operational status
- Screen can be set to display in English, Spanish or French

SMARTTOUCH

QUESTIONS & TECHNICAL SUPPORT AVAILABLE. CONTACT US DIRECTLY:

Phone Support
1-888-321-Aire (2473)

Email Support & Service
CustomerService@PoweredAire.com

Sales Questions
Sales@PoweredAire.com

SmartTouch PRO Controller Technical Data

SCREEN LAYOUT

Main screen

00/00/0000 ALARM!!! Mon 00:00 AM Int: 125 F
SCHEDULE CHANGE Int: 125 F
FILTER Ext: 125 F

AIRE CURTAINS

Press Screen to Continue

www.PoweredAire.com

Lock screen (if activated)

Enter password and press Login

9999

Login

www.PoweredAire.com

If no lock
screen, will go
straight to
**Main Control
Screen**

Menu Screen

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

Set Date/Time Set Delay Time Password Setup

Filter Reminder Time Schedule System Runtimes

Language Screen Settings Temperature Settings

ALARM SCREEN Ethernet Settings

Fan Mode

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

FAN MODE

☐ Off - Fans disabled

☐ On - Fans on continuously

☐ On when door is open, off when door is closed

☐ Off when door is open, on when door is closed

☐ On when door is open, per cycle timing when door is closed

AIRE CURTAINS

www.PoweredAire.com

MAIN CONTROL SCREEN

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

HIGH Fan Mode AUTO Heat Mode

100% FAN SPEED 100 F SET POINT

HELP MENU

AIRE CURTAINS

www.PoweredAire.com

MENU SUB SCREENS

Set Time/Date Screen Settings

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

Enter time and date to change system time and date 00:00

Jan 00 0000

SCREEN SETTINGS

Screen Saver Time (min) 15

10% 100% 100%

AIRE CURTAINS

www.PoweredAire.com

Dual Fan Speed

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

FAN SPEED

☐ High Speed

☐ Low Speed

☐ AUTO - High speed when door is open, low speed when door is closed

AIRE CURTAINS

www.PoweredAire.com

Filter Reminder Alarm

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

FILTER REMINDER

Filter reminder will be activated in 000 days

☐ 30 Days ☐ 60 Days ☐ 90 Days

☐ 180 Days ☐ 365 Days

Reset Filter Reminder

Alarm

Date Time

00/00/00 00:00 Heater contactor failed to close

00/00/00 00:00 Heater contactor failed to close

00/00/00 00:00 Heater contactor failed to close

00/00/00 00:00 Heater contactor failed to close

00/00/00 00:00 Heater contactor failed to close

00/00/00 00:00 Heater contactor failed to close

00/00/00 00:00 Heater contactor failed to close

00/00/00 00:00 Heater contactor failed to close

Alarm

AIRE CURTAINS

www.PoweredAire.com

Variable Fan Speed

00/00/0000 Mon 00:00 AM Int: 125 F
Ext: 125 F

FAN SPEED

50% 50% 100%

☐ Use set speed whenever fans are running

☐ Use set speed when door is open, low speed when door is closed

AIRE CURTAINS

www.PoweredAire.com

Heat Mode

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

Heat Mode

☐ OFF - Heat is disabled

☐ ON - Heat always on while fans are running

☐ AUTO - Heat per thermostat while fans are running

☐ SPACE HEATER - Fans and heaters will turn on to satisfy thermostat

AIRE CURTAINS

www.PoweredAire.com

Language Password Setup

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

SELECT LANGUAGE

☐ English

☐ French

☐ Spanish

Password Setup

Enter new password. Entering password value 0000 will disable password.

9999

AIRE CURTAINS

www.PoweredAire.com

Set Time Delay System Runtimes

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

DELAY TIME

60 Hour

SYSTEM RUNTIMES

Door Count: 00000000

Hours Minutes

Fans: 00000000 00000000

Heater: 00000000 00000000

Reset run time and door count

AIRE CURTAINS

www.PoweredAire.com

Temperature Set Point

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

TEMP SETPOINT

125 F

AIRE CURTAINS

www.PoweredAire.com

Time Schedule Temp Settings

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

TEMPERATURE SETTINGS

☐ Celsius

☐ Fahrenheit

125 F

☐ Exterior Sensor Control

☐ Heater Off ☐ System Off

AIRE CURTAINS

www.PoweredAire.com

Help

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

HELP

Screen Revision: 00.00

Control Revision: 00.00

For help with the air curtain or touchpad, call PoweredAire technical support at 1-888-321-2473 or visit www.poweredaire.com. Please have serial number ready when calling.

AIRE CURTAINS

www.PoweredAire.com

Ethernet Settings

00/00/0000 Mon 00:00 AM Int: 00 F
Ext: 00 F

ETHERNET SETTINGS

☐ Static

IP Address: 000.000.000.000

Subnet Mask: 000.255.255.255

Def Gateway: 000.255.255.255

MAC Add: FF.FF.FF.FF.FF.FF

Reset System

AIRE CURTAINS

www.PoweredAire.com

SMARTTOUCH

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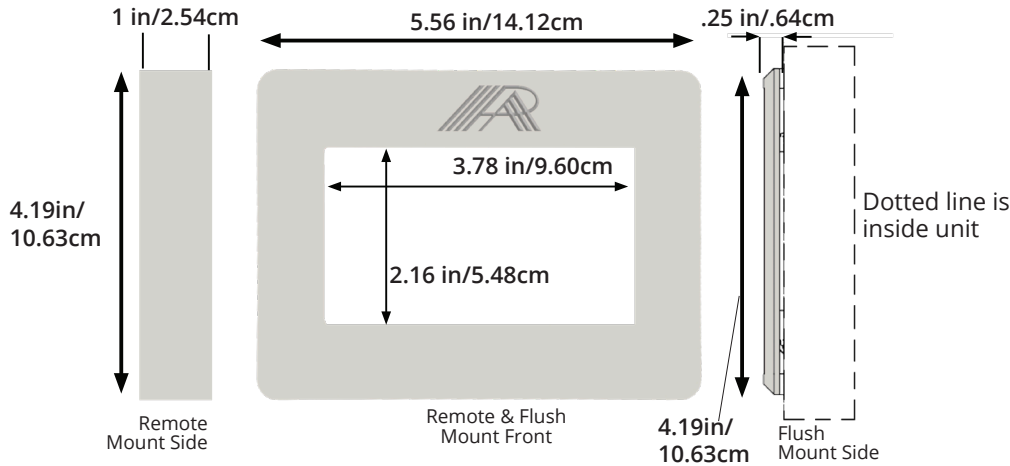
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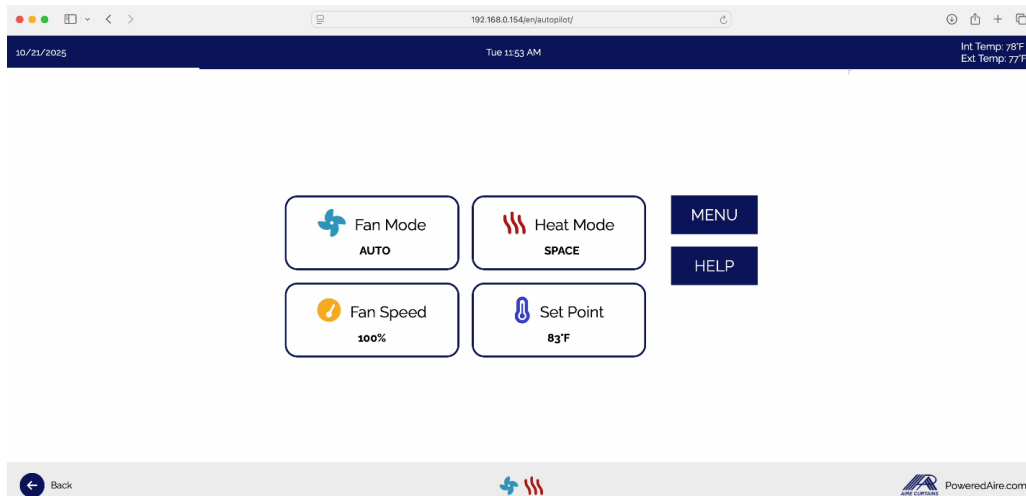
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SmartTouch PRO Controller Technical Data

PRODUCT DRAWINGS



WIFI CONTROL SCREEN VIEW ON LAPTOP/TABLET MOBILE DEVICE



Building Automation and Control Networks (BACnet)

There are 57 SmartTouch settings that can be controlled via BACnet ranging from SmartTouch setup to air curtain functionality (fan control, heat, temperature control) to key reminders (alarms, reminders and door counts). A complete list of these controls is available at www.PoweredAire.com/ST.

BACnet Alarms

Alarm Code (Decimal)	Message	Description
161	Motor contactor failure	Motor commanded on, no aux contact closure from contactor
162	Motor overload failure	Motor overload has tripped
163	Heat contactor failure	Heater commanded on, no aux contact closure from contactor
164	Heat overtemp failure	Overtemp switch has been activated
165	Flow switch 1 failure	Motor is commanded on, contactor is closed, no flow switch indication
166	Flow switch 2 failure	Motor is commanded on, contactor is closed, no flow switch indication

Touchpad Performance

Hardware	
CPU	32-bit RISC CPU
Real Time Clock (RTC)	Yes
Communication Interface	
CN1	24VDC/CANbus to control board
CN2	Ethernet - BACnet IP, HTML Server (port 80)
WiFi Connection	Connect to router then use unit IP to access server
MMI (Man Machine Interface)	
LCD	4.3" (480W x 272H), 16.7M colors
Backlight Life	>30,000 hours
Brightness	650 nits
Touch Panel	Capacitive Touch
Electrical	
Power Input	24VDC (through RJ-45 port)
Power Consumption	2.5W @ 5VDC
Battery	CR2032 3V Lithium
Mechanical	
Dimensions (W x L x H)"	See drawings
Installation	Wall Mount or Air Curtain Mount
Ingress Protection	IP40
Environmental	
Operating Temperature	"-20°C~-+70°C (-4°F~-+158°F)"
Storage Temperature	"-30°C~-+85°C (-22°F~-+185°F)"
Ambient Relative Humidity	Temp < 60C 90%RH Max (96HRS Max) Temp > 60C Absolute humidity must be lower than humidity of 90%RH (96 HRS Max)

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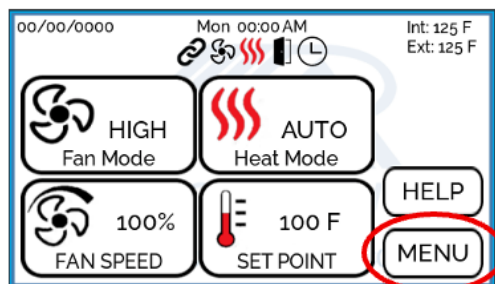
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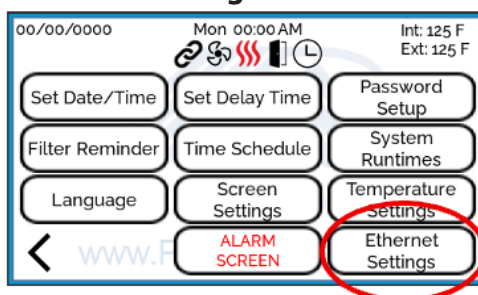
SmartTouch PRO Controller Technical Data

WIFI/SERVER SETUP INSTRUCTIONS

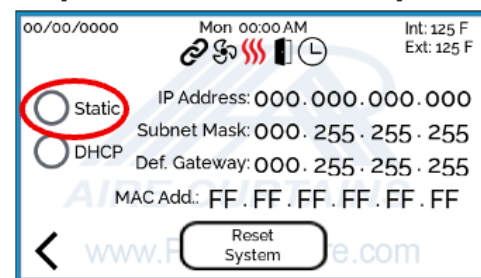
Step 1: Press the "MENU" button



Step 2: Press the "Ethernet Settings" button



Step 3: Select the "Static" option:



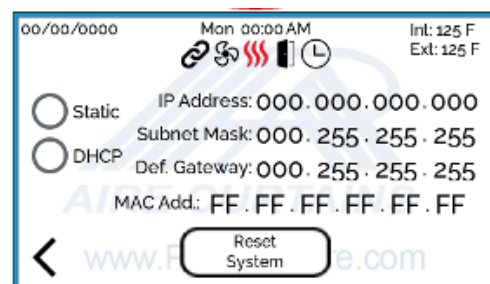
Step 4: Assign Values (We recommend getting assistance from your IT team)

With the assistance of a network administrator, assign permanent values to the following on both the Smart Touch Pro and Router:

- ▶ IP Address
- ▶ Subnet Mask
- ▶ Default Gateway
- ▶ MAC Address – Will not be necessary for web server setup

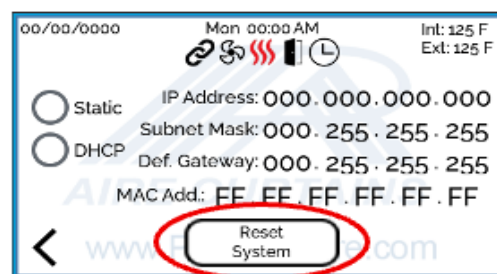
Ensure that all values are set as static within the router to prevent conflicts with other devices on the network.

Ensure values set on Smart Touch Pro match settings on Router or this will NOT work



Step 5: Once values are assigned on both the router and Smart Touch Pro, press the "Reset System" button at the bottom of the touch screen. This will apply all modifications and automatically restart the Smart Touch Pro.

Step 6. Once restarted, return to the "Ethernet Settings" menu to confirm that all changes have been saved correctly. If not, repeat steps 4 and 5.

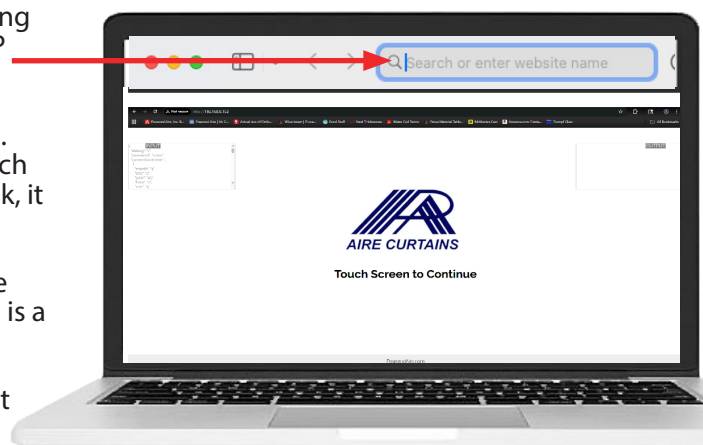


Step 7: To test connectivity to the Web server, ensure that you are using a computer on the same network. Open any web browser, enter the IP address that was assigned to the Smart Touch Pro, and press enter

At this point, the web server can be used exactly like the touch screen. Any changes made to the web server will be applied to the Smart Touch Pro in real time. As long as the Smart Touch Pro is on the same network, it can be controlled wirelessly from a cell phone, tablet, or laptop.

To set up functionality for BACnet - This is heavily dependent on the building management system (BMS) being used. The Smart Touch Pro is a BACnet over IP/Ethernet device and will need to be set up as such.

The BACnet IP Port will be 47808. Once set up, it will allow the Smart Touch Pro to be controlled through a BMS/BAS.



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