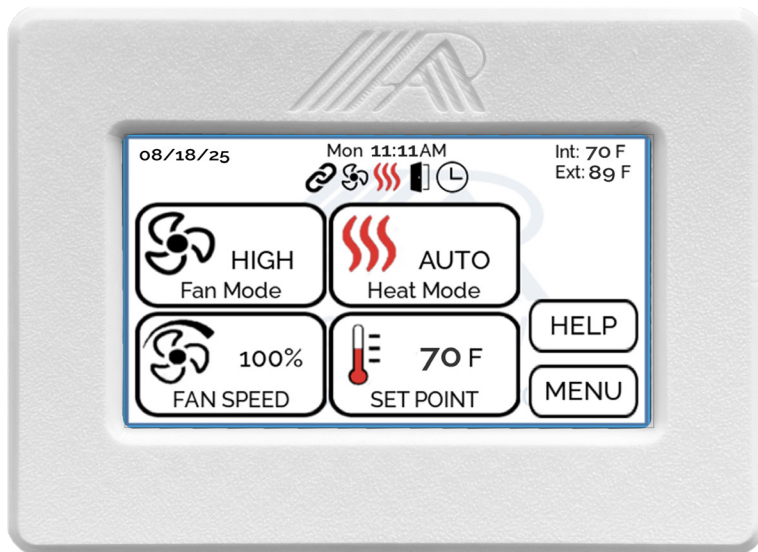


SmartTouch Pro Controller w/ BACnet

Technical Data



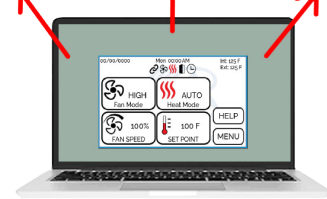
PRODUCT IMAGE



FEATURES AND KEY PRODUCT INFORMATION

- ▶ Web server connectivity, the SmartTouch Pro integrates seamlessly with a building's Wi-Fi network, allowing remote access and control of the air curtain from any web browser enabled device connected to the network
- ▶ Complete Air Curtain control including fan speed, temperature, fan mode, heat and other functionality
- ▶ BACnet over IP/Ethernet device. BACnet router can also be used to interface with BACnet over MS/TP
- ▶ With BACnet integration, a facility can monitor, control, and automate the air curtain from a centralized HVAC system/ Building Automation System (BAS)
- ▶ Temperature sensor for pinpoint readings that maximize air curtain effectiveness and active supplemental heat when programmed
- ▶ Lockable screen to prevent unwanted adjustments/ tampering
- ▶ Unit mounting in slim, low profile case or remote mounting via a standard CAT-5e Ethernet cable and Wi-Fi Network access
- ▶ Back-lit LCD illuminates upon touch for easy/instant visibility regardless of ambient lighting

ALTERNATE VIEWS



REMOTELY CONTROL AIR CURTAINS



APPLICATION NOTES

- CR2032-Reversed Polarity 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 from 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

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

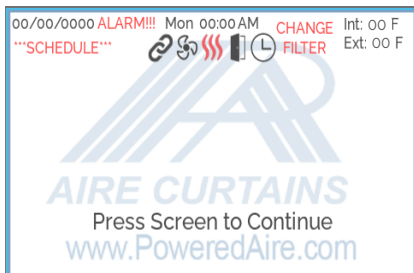
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SmartTouch Pro Controller w/ BACnet Technical Data

SCREEN LAYOUT

Main screen

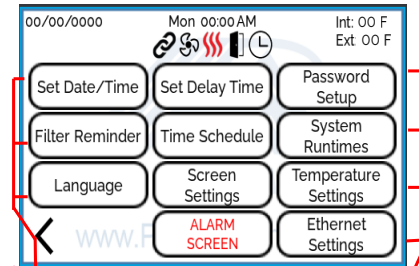


Lock screen (if activated)

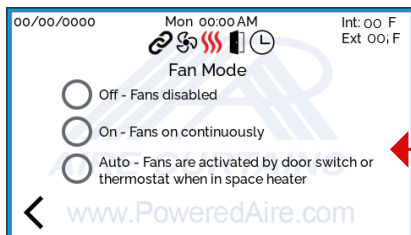


If no lock screen, will go straight to Main Control Screen

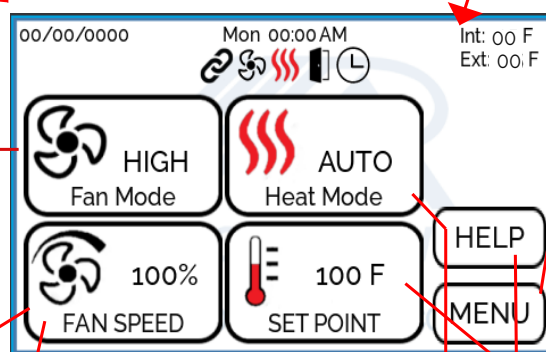
Menu Screen



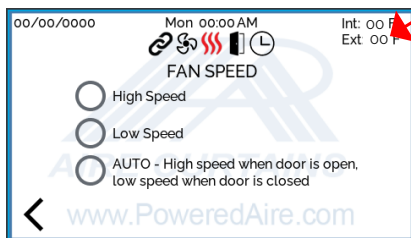
Fan Mode



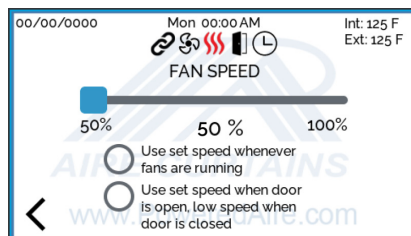
MAIN CONTROL SCREEN



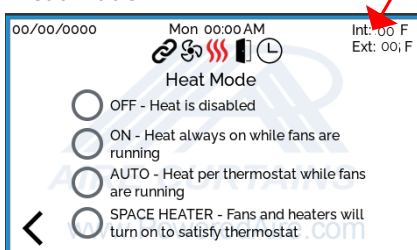
Dual Fan Speed



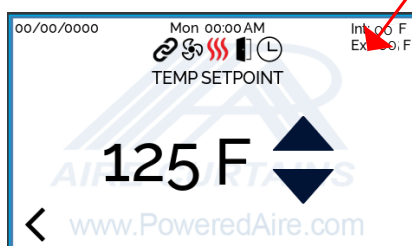
Variable Fan Speed



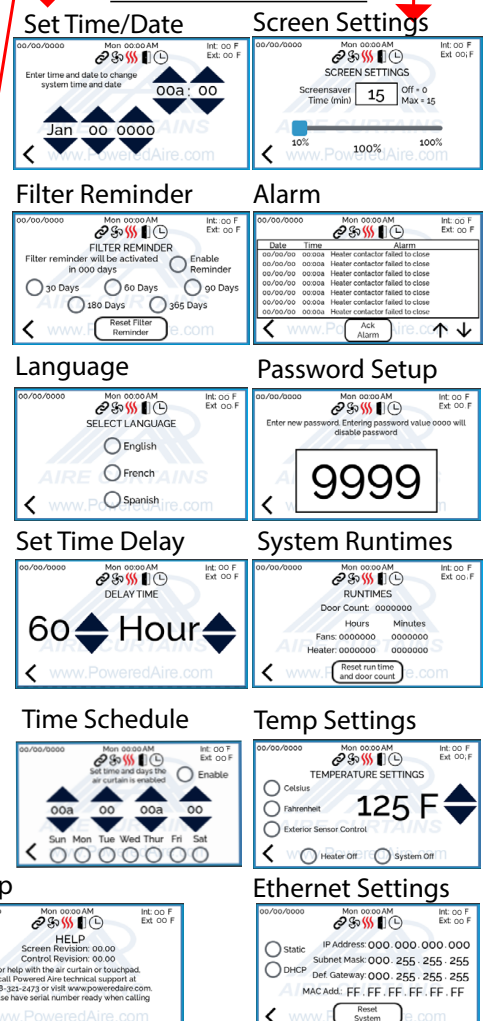
Heat Mode



Temperature Set Point



MENU SUB SCREENS



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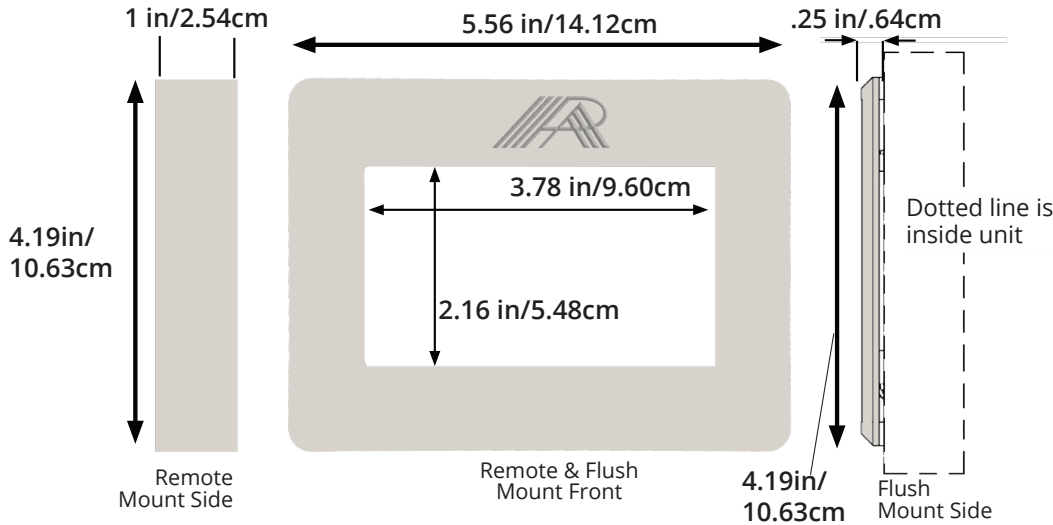
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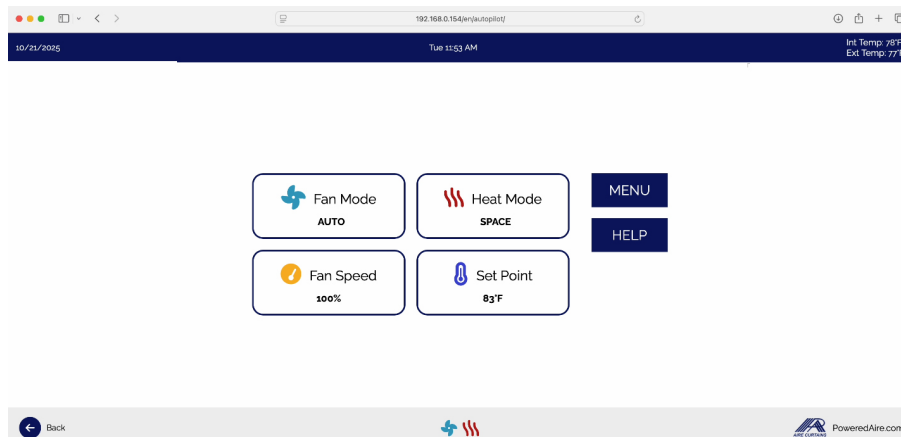
SmartTouch Pro Controller w/ BACnet Technical Data



PRODUCT DRAWINGS



WI-FI CONTROL SCREEN VIEW ON LAPTOP/TABLET MOBILE DEVICE



Building Automation and Control Networks (BACnet)

There are 30 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-reverse polarity
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)

SMARTTOUCH

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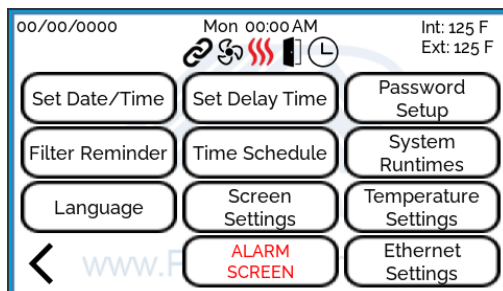
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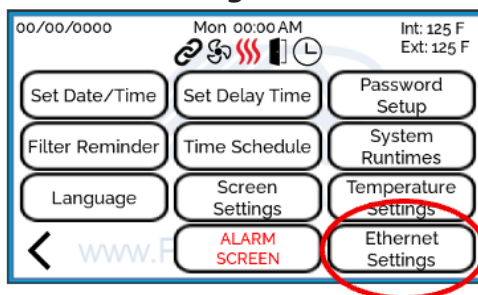
SmartTouch Pro Controller w/ BACnet Technical Data

WI-FI/SERVER SETUP INSTRUCTIONS

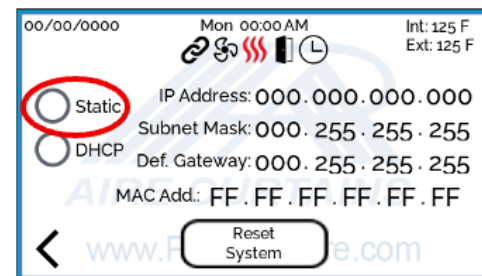
Step 1: Press the "MENU" button



Step 2: Press the "Ethernet Settings" button



Step 3: Select the "Static" option:



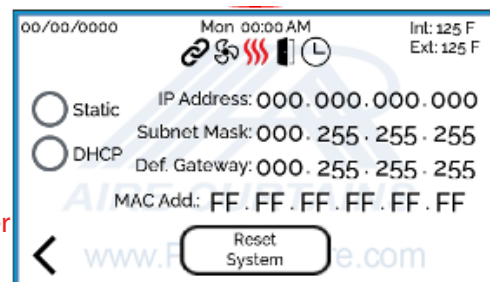
Step 4: Assign Values (We recommend getting assistance from your IT admin)

Press on number fields to assign permanent values to the following, on both the Smart Touch Pro and your router:

- ▶ IP Address
- ▶ Subnet Mask
- ▶ Default Gateway
- ▶ MAC Address

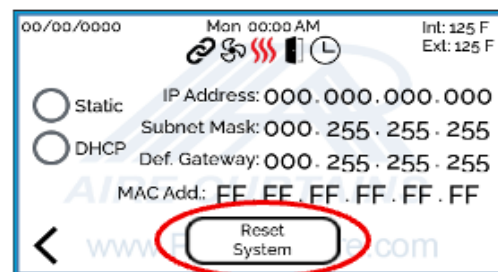
Ensure that all values are set as static within your router to prevent conflicts with other devices on the network.

Ensure values set on Smart Touch Pro match settings on your router.



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.

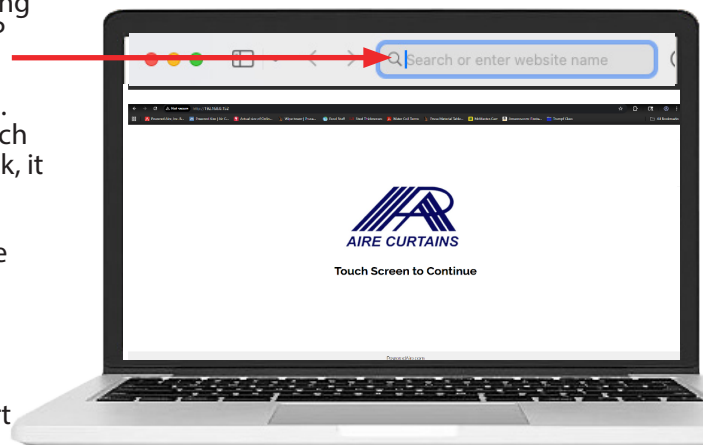


Step 7: To test connectivity to the Web server, ensure that you are using a computer on the same network. Open any web browser, enter the IP address that was assigned to the Smart Touch Pro, and press enter

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 but BACnet router can be used to interface with BACnet over MS/TP.

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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