Plus Touch Series

Model: PLUS-TOUCH

VentGrid™ merged ventilation

VentGrid can provide optimized control and smoother transitions between steps than staged mode can, reducing energy and saving you money.
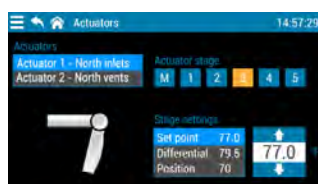
Secondary modifiers — more than just temperature

Plus Touch is more than a temperature-based control. Monitor humidity, ammonia, and CO_2 and then use those conditions to influence ventilation. For example, if the humidity is too high, Plus Touch can switch heaters on or increase ventilation to reduce it.

Completely programmable in as little as 5 minutes!

We know that's a bold statement, but Plus Touch provides a completely new user experience.

The 5-inch display's intuitive, easy-to-use screens allow you to quickly move through the menus and program the control.

Save the settings to a USB stick and use it to set up new controls in seconds!

Capabilities

Programming options		Notes
Temperature-based control	✓	–13 to 125°F (–25 to 51°C)
THI control	✓	
Control zones	2	
Staged ventilation mode	✓	
VentGrid mode	✓	Up to 4 steps
Manual override mode	✓	
Growth curves	2	
Minimum ventilation curves	2	
Secondary modifiers	✓	Humidity, CO2, NH3, outdoor temp.
Relay stagger	✓	Balances loads at startup
Hysteresis	✓	

Stages and relays		
Variable AC stages	2	
0-10 V DC signal outputs	4	With optional VDC-4 module
General-purpose relays	6	Replaceable
Alarm relay	✓	

Variable and relay configuration		
Variable cooling/heating	✓	
Relay cooling/heating	✓	
Duty cycle	✓	
Actuator / inlet	✓	Maximum 2 combined
Curtain machine / winch	✓	
Timed events	✓	
VFD control (follow relays)	✓	

Sensor inputs		
Phason 3K Series	5	Temperature
Outdoor temperature	✓	
DOL 114	✓	Temperature/humidity
DOL 16	✓	Light
DOL 119	✓	Carbon dioxide
DOL 53	✓	Ammonia

Other		
5-inch touchscreen	✓	
Scrolling status screen	✓	
Updatable firmware	✓	Via USB
Transferable settings	✓	Via USB
Hourly and daily logs	✓	
Diagnostics	✓	
NEMA 4X enclosure	✓	
CSA approval	✓	
CE certification	✓	
2-year warranty	✓	

Electrical ratings

Incoming power	120/230 VAC, 50/60 Hz
Variable AC	10 A at 120/230 VAC, general-purpose (resistive) 7 FLA at 120/230 VAC, PSC motor 1/2 HP at 120 VAC, 1 HP at 230 VAC, PSC motor
Variable stage fuses	15 A, 250 VAC ABC-type ceramic
Relays	10 A at 120/230 VAC, general-purpose (resistive) 1/3 HP at 120 VAC, 1/2 HP at 230 VAC 360 W tungsten at 120 VAC
Alarm relay	0.4 A at 125 VAC, 2.0 A at 30 VDC, resistive load 0.2 A at 125 VAC, 1.0 A at 30 VDC, inductive load
Variable DC (optional)	0 to 10 VDC, 2K Ω load

Backwards compatible

The Plus Touch controller is backwards compatible with all earlier **PEC Plus** control boards (bottom boards). To upgrade to a Plus Touch and add all the new features, purchase a display upgrade kit (**model: KPEC-PLUS-TOUCH**), connect it to your existing PEC Plus control board, and then program your new control.

Accessories

VDC-4 Variable DC Module

The Variable DC Module adds four 0 to 10 V signal outputs to control FanDRIVEs, variable frequency drives, and other third-party equipment that accepts a 0 to 10 V signal.

FanDRIVEs

FanDRIVEs expand the capacity of your control system by taking the DC signal from the VDC-4 module and adjusting fan speed.

- Model **FD-2-7** has two 7 FLA outputs
- Model **FD-1-14** has one 14 FLA output

Phason 3K Series Temperature Sensors

3K Series temperature sensors are available in 1, 6, 30, 75, and 150-foot lengths, and can be extended up to 500 feet.

MOB-4 Manual Override Box

The Manual Override Box increases the load handling capability of control relays and provides an external disconnect. It includes four 240 V power contactor relays and **AUTO-OFF-MANUAL** switches.

Dol sensors

Dol sensors add the ability to monitor other conditions and use secondary modifiers.

- **DOL 114** Temperature and humidity
- **DOL 53**   Ammonia (NH_3)
- **DOL 119** Carbon Dioxide (CO_2)
- **DOL 16**   Light