

# EXPERT™

## CONTROL SYSTEMS

**EXPERT** NATURAL PLUS



UNLOCK BETTER PERFORMANCE



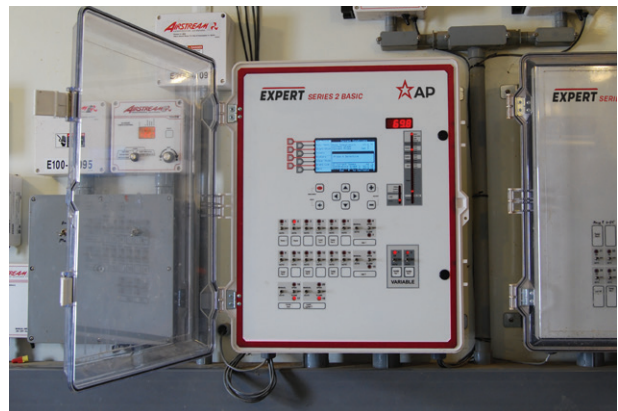
# TRUST THE EXPERTS

Our wide selection of EXPERT™ controllers give you the power to monitor and manage your environmental systems with greater efficiency and performance.



## EXPERT™ SERIES CONTROLS

- Zoning of heaters, inlets and circulation fans with up to eight inside temperature sensors.
- Power save feature allows smaller less efficient fans to be switched off as the temperature rises.
- Seamless ventilation steps between stages when using variable speed fans.
- Separate day/night set points and minimum ventilation settings.



## RECORDING FEATURES

- Heater run-time up to 75 days.
- Run-time of up to four feed systems for up to 75 days.
- High and low temperature history for up to seven days.
- Animal count, age and mortality.

## OTHER FEATURES

- Alarm that monitors up to ten functions; 16 are monitored in the Series II and 11 in VT110.
- Up to two timed outputs for feed systems, water or lights.

## OPTIONAL FEATURES

- Humidity sensor input - Compensates heaters, min. ventilation rate based on humidity.
- Static Pressure input - Compensates inlets according to static pressure.
- Water meter inputs - Gives alarm in event of water spill.
- Backup safety relay system available for added protection.



Scan the QR code  
to learn more about  
our EXPERTS.

## TC5 SERIES VENTILATION CONTROLS

Sophisticated yet simple to program and operate. These controls are designed and manufactured for specific applications such as natural, tunnel or power/natural ventilation.

- Up to four temperature sensors averaging temperature.
- High/low temperature retention.
- Set point and minimum ventilation curves.
- Overload and over voltage protection.
- Zoned or cascading heat stages.
- Alarm output.
- De-icing cycle on second stage variable fans.

### TC5 OPTIONAL FEATURES

- Humidity sensor input.
- Air inlet control using TC5-ITA timed logic or PF-6 inlet position module and potentiometer.

## HML SERIES VARIABLE CONTROLLERS

Power module is capable of varying the intensity of lights, heat lamps, heat mats or fans.

- Compatible with most dimmable CFL's (compact fluorescent lights) including CCFL (cold cathode).
- Adjustable output intensity curves.
- Seven light curves adjust electronic (CFL) and incandescent lamps.
- Ten fan curves are available to optimize variable fan speed range.
- Available in automatic or manual control.
- Sunset/Sunrise built in (with clock input).
- True by-pass on Manual.
- Available In 1200, 2400 and 4800 Watt capacities.
- 0-10 or trig signal can be used as inputs to the module.
- EDGE, EDGE 2, and Experts can control the module.



**HML-40**



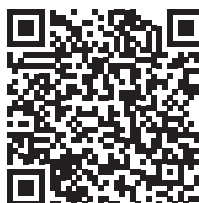
**HML-80**

	EXPERT II	EXPERT WW	EXPERT VP-18	EXPERT VT110	EXPERT PN110	EXPERT NATURAL
Total Relays	20 or 36	20 or 36	10	14	14	24
On/Off Relays	12 or 24	12 or 24	8	10	10	12
Actuator Outputs (Open & Close)	4 or 6	4 or 6	1	2	2	6
Heat Stages	6	8	2	2	3	4
Brooder Stages	1	N/A	1	1	1	1
Fan Stages	12	12	8	8	8	N/A
Variable Stages	2	0	2	2	2	N/A
Tunnel Stages	2	2	N/A	1	N/A	N/A
Natural Stages	2	2	N/A	N/A	2	6
Inlet Stages	2	2	1	1	1	N/A
Chimney Stages	N/A	N/A	N/A	N/A	N/A	2
Stir Fan Stages	1	N/A	1	1	1	2
Clock Outputs	2	2	2	2	2	2
Mist Stages	1	1	N/A	N/A	N/A	N/A
Cooling Stages	1	1	1	1	1	1
Soaking Stages	1	N/A	1	1	1	1
Light Outputs	1	1	N/A	N/A	N/A	N/A
Feeder Outputs	2	4	N/A	N/A	N/A	4
Back Up Relay Output	1	1	1	1	1	N/A
0-10 Volt Outputs**	2	2	2	2	2	2
Alarm Output	1	1	1	1	1	1
Weather Station Capable	Yes					
Variable Heat	Yes					

## Inputs

Inside Probes	8	8	6	6	6	8
Outdoor Probes	2	2	1	1	1	1
Inside Humidity Probes	1	1	1	1	1	1
Outdoor Humidity Probes	1	1	N/A	N/A	N/A	N/A
Static Pressure Probes	1	1	1	1	1	N/A
Water Meter Inputs	9	9	1	1	1	1
Feeder Inputs	2	4	4	4	4	4
Whisker Switch Inputs	2	2	N/A	N/A	1	N/A

\*\*0-10 Volt outputs can be used for variable fans, heat lamps & inlets.  
See manual for specific details.



For more information on  
AP controls and monitoring  
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