GrowTRAC™ – Wireless Monitoring For All of Your facilities.

VAL-CO introduces GrowTRAC™, a complete wireless monitoring service extending the capabilities of your existing controllers. GrowTRAC™ allows you to connect, monitor, and improve production from a single Web-based software solution. The GrowTRAC™ features facility by facility Conditions At-A-Glance. Intelligent Alarms report high energy costs, equipment failures and environmental thresholds. Predictive Diagnostics report disease risk, underweight animals, low feed levels and low fuel tanks. Notifications with Escalation on PC, web, email, text message or voice through satellite, cell phone or land phone. Historical Performance with One-Touch Reports, Grow-out comparisons, Grow cycle costs versus yields, Multi-barn/house comparisons and Multi-site comparisons. GrowTrac™ satisfies your need to know!

Alarm escalation for threshold conditions

Call your local VAL-CO representative or distributor for more information on these and our other fine products.

North America:
Phone: 800.99VALCO (800.998.2526)
Fax: 419.678.2200
E-mail: sales@valcompanies.com

International:
Phone: 717.392.3978
Fax: 717.735.1800
E-mail: intl.sales@valcompanies.com

VALCO
People. Products. Solutions.
www.valcompanies.com

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Leading in Ventilation Management.

GainTRAC™ Select Series – Whole House Control™

The VAL-CO Family
- Watering Systems
- Feed Bins, Fill Systems
- Feeders
- Nest & Egg Collection Systems
- Cage Equipment
- Lighting
- Brooders & Heaters
- Evaporative Cooling
- Fans & Other Ventilation
- Whole House Controllers™
- Incinerators
- Alarms
- Flooring

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- **Round-The-Clock monitoring** of in-house conditions and automatically coordinates the operation of all equipment to maintain the best possible environment for each stage of bird development.
- **PC Compatibility** and easy-to-use software offers powerful on or remote site capabilities.
- **Revolutionary Static Pressure Control** with fast and accurate vent operation. Intelligent software readjusts the opening based on current conditions. Ramping allows the grower better control over the actual house conditions.
- **Effective Environmental Temperature** control eliminates the confusion over what the birds are actually experiencing. Sensors measure the temperature, airspeed and humidity and combine them in a copyrighted formula to allow the grower better control over actual house conditions.
- **Shared Sensor Technology™** with up to 14 sensors provides far better measurement of environmental conditions. This allows the grower to run any device using any sensor or group of sensors. Capabilities also include accurate humidity sensing at an affordable price and monitoring of water usage or feeder run-time.
- **High Humidity Cutoff** protects birds from heat-humidity stress by controlling evaporative cooling based on the heat index (relative humidity plus temperature). Safely operate tunnel houses without the fear of adding too much water in humid conditions.
- **Innovative Control Logic** is an approach to ventilation control that is so advanced that it is patented! (patent #5,813,599).

   No other control can better manage power or naturally ventilate buildings.
- **Built-in 30 amp relays** fused at 20 amps provide extra muscle and margin of safety. GainTRAC runs most electrical equipment without added expense.
- **Large terminal blocks** are easily accessible and allow quick connection of control devices and backup thermostats.
- **Heavy-duty NEMA-4X enclosure** is completely sealed inside a waterproof/chemical resistant enclosure giving the electronics, relays and connections greater reliability and long life.
- **Expansion** capability with 12 channel or 2 channel variable speed Expansion Stations can be added.
- **Built in Alarms** can be set for high/low temperatures, airspeed, humidity and static pressure. The alarm warns of inlet, fan or control malfunction.
- **UL/ETL Listed -** Meets or exceeds license agency's critical electrical design requirements.

The GainTRAC™ Select Series

Model 4400
Provides 32 separate output channels (Model 3200) plus expansion with a 12 channel (Model 1200) to give this Model 4400 more capability.

(Shown here with optional 2 Channel Variable Speed controller and 3 Deadbolt units... each sold separately. These are not standard components of the Model 4400.)

Model 3200
Provides 32 separate output channels and accepts up to 14 sensors for temperature, humidity, static pressure and feed run-time, plus 4 digital sensors to measure water usage.

Model 1600
Provides 16 separate output channels and accepts up to 14 sensors for temperature, humidity, static pressure and feed run-time, plus 4 digital sensors to measure water usage

Model 1200
Sold only as an Expansion Station, provide 12 separate output channels and accepts 10 sensors for temperature, humidity, static pressure and feed run-time, plus 3 digital sensors to measure water usage.

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Transitional Ventilation with Smart Electronics

The real power of Select Series GainTRAC controls are the advanced design of their internal computer and software. The software that drives each system eliminates external timers and provides a full range of capabilities. It provides true transitional ventilation, coordinating the operation of all equipment to move the right amount of air, in the right way and at the right time to maintain the best possible environment for the bird health and performance.
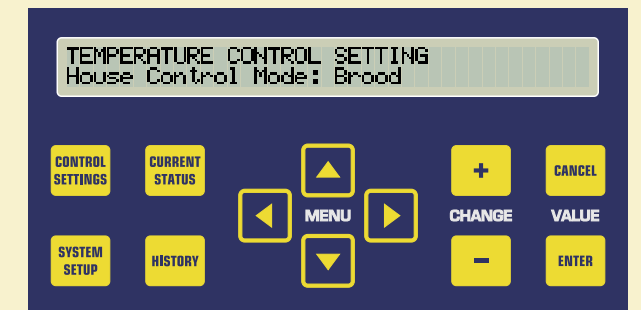
Benefits of control software:

- **Humidity purge** for more effective control of moisture and ammonia level.

- **Faster, more accurate operation of sidewall and tunnel inlets** with digital proportional or static pressure control to maintain desired airflow.

- **Accurate curtain response** with separate open and close settings.

- **Five cooling duty cycles** on a single channel.

- **Humidity control** automatically regulates various devices based on RH or RH and temperature.

- **Automatic power-on sequencing** reduces the load on the electrical system or backup generator

- **Automatic system check** and Watchdog Monitor

- **A running history** is created for equipment operation and in-house conditions.

GainTRAC™ Select Series Operation

Control panels are designed to make each system *user friendly*. Four arrow keys are used to move through the menu choices.

A large readout clearly displays control settings and measurements. The readout also provides step-by-step instructions for setting up each control device.

TEMPERATURE CONTROL SETTING
House Control Mode: Brood

HotKeys™ – One touch, fast selection

HotKeys provide direct access to the four most frequently used menu selections: Current Status, History, Control Settings and System Setup. Each output channel is also equipped with a HotKey that instantly displays the settings for a specific device.

Output Channels

Each output channel features a status light to clearly indicate when a device or device group is operating. Channels are also equipped with a three position toggle switch to manually control any device for maintenance, testing and temporary or emergency operation. A label set, provided with every control, plainly identifies the equipment controlled by each channel.

Label sets include:

Sidewall Inlets	Tunnel Fans
Tunnel Inlets	Lights
Ceiling Inlets	Brooders
Curtains	High Pressure Cool Pads
Feeders	Low Pressure Cool Pads
Stir Fans	In-house Fog
Sidewall Fans	Forced Air Furnaces