

Transitional Ventilation with Smart Electronics

The real power of GainTRAC controls is the advanced design of their internal computer and software. The software that drives each system eliminates external timers and provides a range of capabilities that are not possible with other controls. 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 bird health and performance.

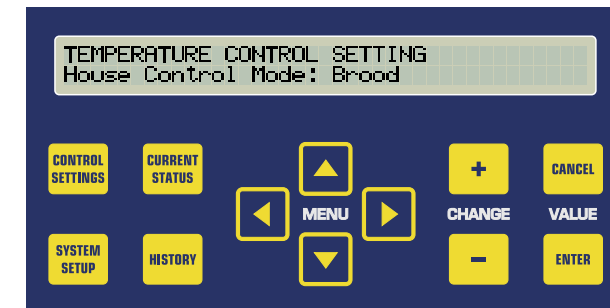
Benefits of control software:

- **Humidity purge** for more effective control of moisture and ammonia level. Extra ventilation time based on humidity or temperature, not just temperature alone, ensures better air quality while conserving energy.
- **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 by phasing-in the start-up of devices after a power interruption.
- **Automatic system check** and Watchdog Monitor ensure that control commands are properly performed.
- **A running history** is created for equipment operation and in-house conditions. Each controller has built-in memory to store several weeks of historical information.

GainTRAC Operation

GainTRAC control panels are designed to make each system easy to understand and use. 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.



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.



Any channel can be assigned to operate any type of device or device group. A label set, provided with every control, plainly identifies the equipment controlled by each channel.

Label sets include:

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

Off-site Monitoring, Control and Evaluation

GainTRAC pioneered the modern era of poultry production with its unique PC compatible interface and LINK management software.

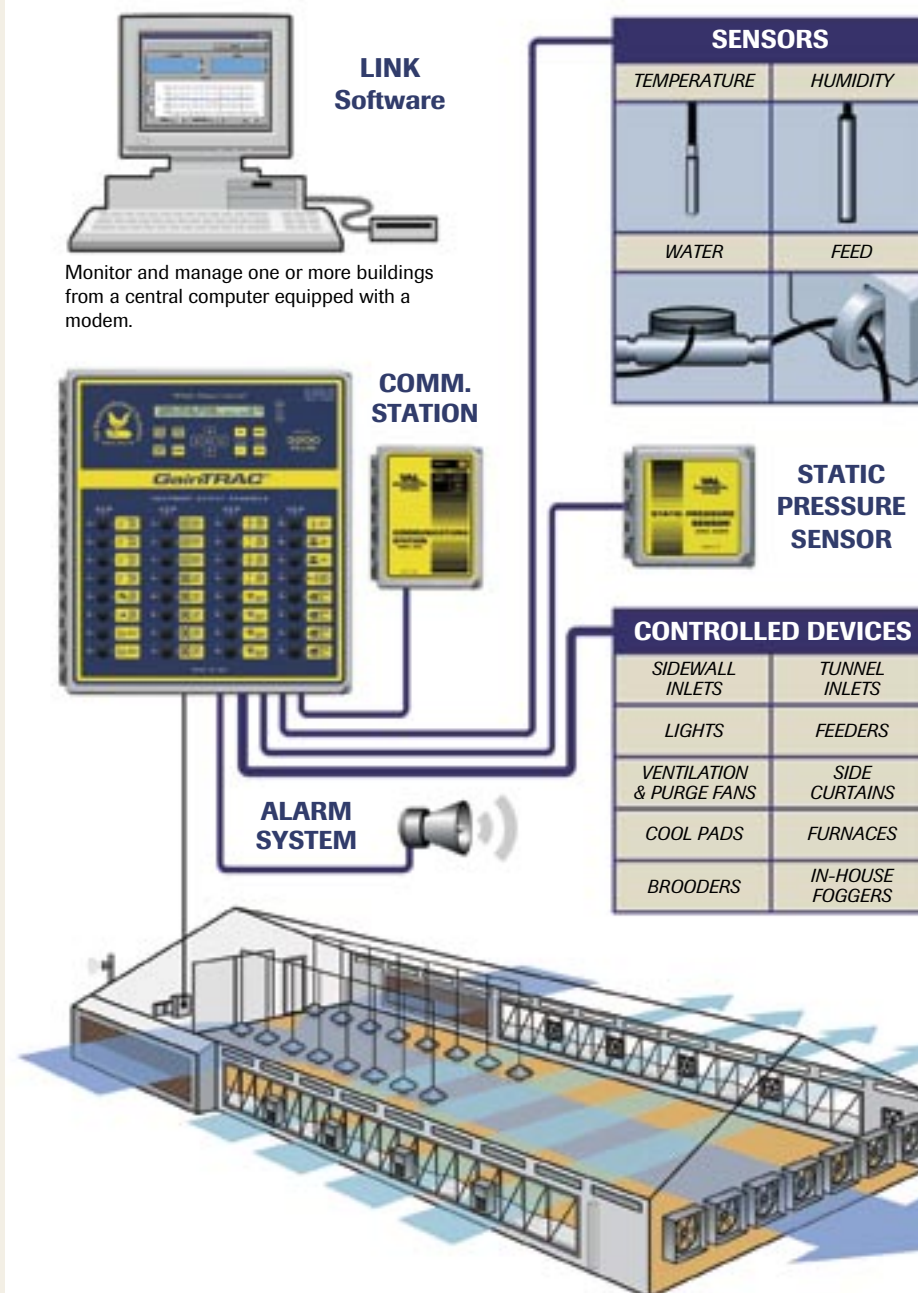
LINK provides the ability to remotely "call up" a specific house, check current conditions and change control settings right from the computer keyboard. In addition, LINK can use the historical information stored in GainTRAC's memory to help pinpoint problems and provide a clearer picture of overall performance. Information can be selected and arranged to provide a comparison of environmental conditions in different houses, measure total daily water use, generate temperature and humidity graphs for a specific period and much more.

The only additional equipment required to use the LINK program on a home or office computer is the optional GainTRAC Communications Station.

COMMUNICATIONS STATION For GainTRAC Model Controls



GainTRAC Whole House Control with Power, Natural or Tunnel Ventilation



Contact your VAL-CO sales team member today and let us show you how GainTRAC and our fine line of ventilation equipment can increase your profits!



North America:
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"VENTILATION PRODUCTS FOR A HEALTHIER ENVIRONMENT"

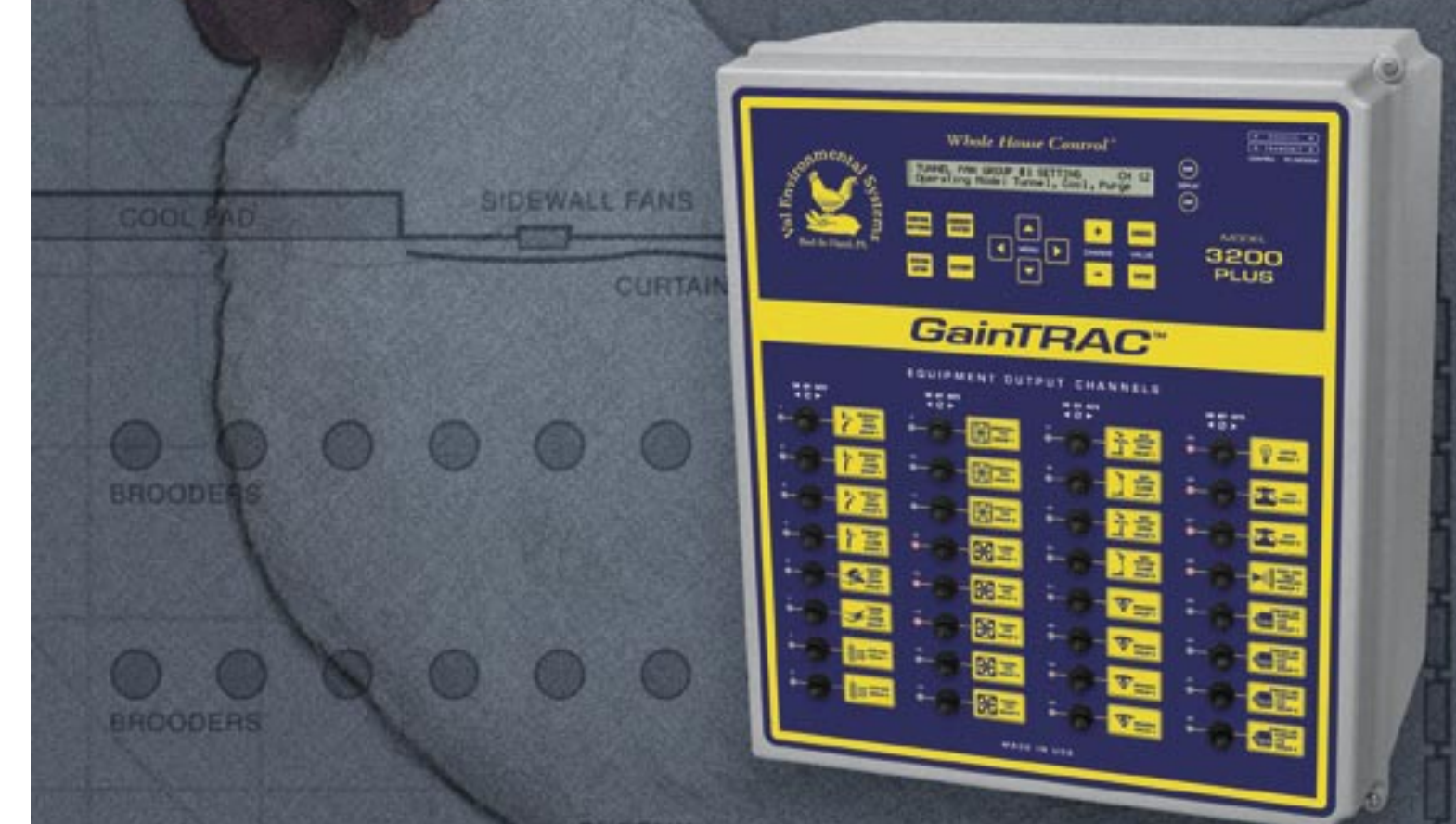
Manufacturer reserves the right to change specifications.

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GainTRAC™

WHOLE HOUSE CONTROL™



Engineered, Tested and Proven Like No Other Control on the Market
Trust your houses to nothing less

Superior automated solutions based on patented ventilation technology





GainTRAC™ Whole House Control™

GainTRAC Whole House Control is a major advance in environmental control and management. It provides 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 off-site capabilities. The GainTRAC family also includes other related products to economically satisfy the control needs of any size or type of facility.

The Leader in Ventilation Management

Lets you control the Whole House the way you've really wanted to –

Revolutionary Static Pressure Control with the optional Static Pressure Sensor

No more slow and inaccurate vent operation. Intelligent software readjusts the opening based on current conditions. Ramping allows you to increase static pressure automatically as outside temperatures drop. User adjustable static pressure alarms warn of inlet or fan malfunction.

Effective Environmental Temperature

Measuring only temperature means hit-and-miss natural ventilation. GainTRAC measures wind chill and eliminates the confusion over what the birds are actually feeling. Sensors measure the temperature, airspeed, and humidity and combine them in a copyrighted formula to allow the grower better control over actual house conditions. Lower stress means better weight gain and better feed conversion ratios. Precise control cuts energy costs from over-ventilating.

High Humidity Cutoff

Protect birds from heat-humidity stress by turning evaporative cooling off 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

An approach to ventilation control that is so advanced, it's patented! (patent #5,813,599) **No other control can better manage power or naturally ventilated buildings.**

Shared Sensor Technology™

Up to 14 sensors provide far better measurement of environmental conditions. Shared Sensor Technology (SST) 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.

*Raise chickens easier – get better results
GainTRAC is the solution*

BUILT TO HIGHER STANDARDS

Don't put yourself at risk with an untested, unproven control. All GainTRAC Models are listed under one or more of the following testing agencies:

UL CSA CE ETL

GainTRAC Whole House Controls – Available in 3 Models

Three models offer a range of output channels and sensor inputs to cost-effectively meet the control needs of your houses. All models feature the same high quality construction and design features. The all-in-one control enclosure eliminates problem areas, while making installation simple and inexpensive.

Built-in fuse protected relays–

Some systems only provide limited internal switching capability with no overload protection. GainTRAC controls are equipped with 30 amp relays fused at 20 amps for added protection. This extra muscle and margin of safety means GainTRAC can easily run most electrical equipment without added expense.

Large terminal blocks–

Large, easily accessible terminals allow quick connection of control devices and backup thermostats.

Heavy-duty NEMA-4X enclosure–

The electronics, relays and connections are completely sealed inside a waterproof/chemical resistant enclosure for greater reliability and long life.

Expandable–

Up to 8 12-channel Expansion Stations can be added to any GainTRAC control. Each Station provides 12 additional output channels and 10 input channels.

MODEL 3200 PLUS

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 PLUS

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 PLUS

Provides 12 separate output channels and accepts up to 10 sensors for temperature, humidity, static pressure and feed run-time, plus 3 digital sensors to measure water usage.



GainTRAC Accessories

GainTRAC accessories provide additional capabilities and security. New features and accessories are always being developed – contact your VAL-CO representative for up-to-date information.



ThermoTRAC™ Model 7000 BACKUP CONTROL

A rugged, independent control that automatically takes over in case of a primary system failure. Loaded with features and capabilities that enable it to perform all critical equipment operations to maintain a proper house environment.

May also be used as a contactor panel or as an economical stand-alone control.

STATIC PRESSURE SENSOR

Compares inside and outside air pressure and controls position of inlets to maintain a programmed static pressure setting. If sensor readings exceed acceptable limits, the GainTRAC control will generate an alarm condition.



DEAD BOLT™ LIGHTNING/SURGE ARRESTORS–

Effectively protects equipment from lightning damage. Available in 3 models for power circuits, telephone lines and data lines.

AUTO DIALER–Features 4 alarm message zones. Automatically dials up to 8 telephone numbers/pagers when activated by an alarm condition. Remote shut-off and re-arming capability.

SENSORS–Temperature, relative humidity, water meter, static pressure and feed run-time.

COMMUNICATIONS STATION (see details on back)

VARI-SPEED STATION

Up to 5 stations can be added to the GainTRAC 3200 and 1600 controls. Each station provides two variable speed output channels. Fans may be run on time cycles or ramped up to maximum speed as temperature rises. Equipped with manual override.



Specialized Stand-alone Controls For economical basic automation.



POLAIR™ 400HC

An electronic control designed to regulate evaporative cooling with far greater precision than conventional thermostats or timers. Offers flexible configurations for the operation of low and high pressure fogging pumps, drain solenoid and fans.

- Monitors temperature and humidity.
- High humidity cutoff.
- Manual override for each channel.

CLIMATRAC 400

A low-cost ventilation control that can run four different device configurations:

- Two curtains, inlets or louvers
- One curtain/inlet and an evaporative cooling system.
- One curtain/inlet and two temperature-controlled devices (fan, heater, mister, etc.)
- Four temperature-controlled devices.

Features high-humidity cutoff for evaporative cooling, user-defined curtain and temperature open/close settings and manual overrides.



CLIMATRAC 200

Simple, inexpensive control for curtains, inlets or louvers. Features include:

- User-defined open/close temperature settings.
- Curtain open/close run and pause times.
- Separate settings for fast open/close to compensate for rapid changes in temperature.
- Manual override.
- Works with optional Static Pressure Sensor as an inlet static pressure control.

