

PRECISE AND EASY MANAGEMENT OF YOUR POULTRY HOUSE LIGHTING
FLICKER FREE | ENERGY EFFICIENT | EASY TO PROGRAM

BENEFITS

- **FLICKER FREE** lighting
 - Calmer, healthier birds
 - **FLICKER FREE** even for your chickens
 - Truly smooth dusk to dawn transition
- Precision control
 - Designed to allow you to control and adjust the light duration and intensity from 0 to 100%
 - Extreme low light dimming. Encourages hens to return to the nest in cage free and enriched cage environments
- Programmable
 - Program up to 20 light periods AND up to 20 light peaks per period
- User friendly interface and menus
- Superior stability
- Master can be used as a slave to allow for outputs to be configured independently
- Energy Efficiency of 99.5%



FEATURES

- Gradual increase and decrease in light intensity to simulate sunrise and sunset.
- Minimum and maximum intensities can be specified as a percentage of full lamp intensity.
- Real-time clock with backup battery to keep time in case of power failure.
- Electronic bypass switches.
- Displays current light intensity (in all models).
- Displays current time, day and period (master only).
- Controller will smooth sudden transitions in light intensity.
- Temporary manual override feature reverts back to auto after a set time as a safety.
- Lamp output activated by a customizable threshold value.

TECHNICAL DATA

CN30-014-00188

POWER	
Voltage and operating frequency	85-145VAC, 50-60 Hz
INPUTS	
Analog input, AI1 & AI2	0-10VDC
OUTPUTS	
Variable output (A and B)	1000 W per output
Analog outputs AI1 & AI2 (in master mode)	0-10 VDC, source, maximum load: 10 mA



FEATURES

- Portable - Just plug it in and it's ready to go.
- Best way to display LED Control and bulbs.
- Mount in your showroom or in your tradeshow booth.
- Demonstrate the effectiveness of dimming the bulbs in real time.
- Get down to 1% without flickering.
- Includes:
 - Flicker Free Light Dimmer
 - Wall mount bracket
 - 2 canarm LED bulbs
 - mount for dimmer and bulbs
 - hardware and 6' 120v cord



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MOUNT



Successfully tested on dozens of different brands of bulbs/lighting. The Flicker Free LED Light Dimmer control has yet to come across a brand it can't dim from 0 to 100%!

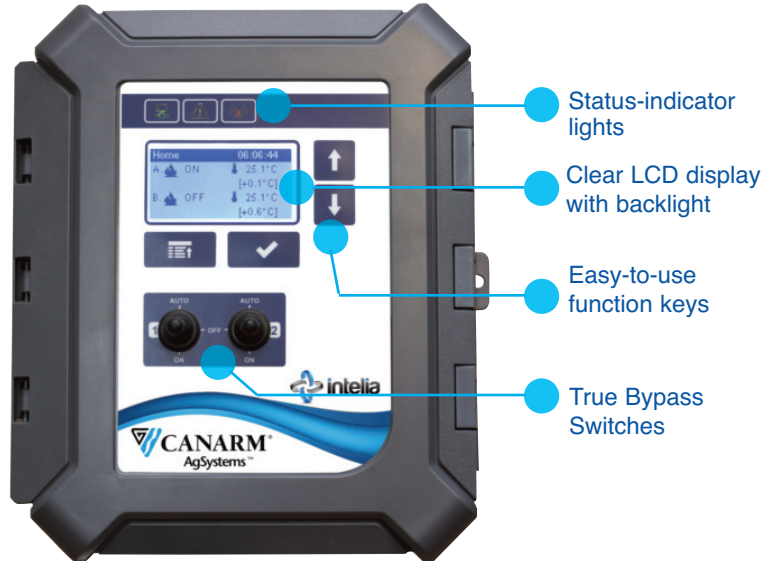


EASY TO USE AND TO PROGRAM | HIGH QUALITY, USER-FRIENDLY DESIGN
COST EFFECTIVE | EASY TO INSTALL

The Solo CC02 is an effective solution to control your heat lamps. The control is designed to provide significant savings on energy costs while minimizing losses due to poorly regulated supplemental heat which can have a serious impact on livestock health.

FEATURES

- Two variable outputs, 1500 W (120V per output)
- Operates two independent groups of equipment.
- Temperatures displayed in Fahrenheit or Celsius
- Memory protection in the event of a power failure
- Alarm contact (NO/NC) in case of power failure, min/max temperatures or fault in operation
- True bypass switches
- Overload protection on the output



INCLUDED FUNCTIONS

Temperature control: Automatically adjusts the power to lamps from 0 to 100% to compensate for fluctuations in room temperature.

Temperature ramping: Automatically decreases temperature as pigs get older.

Soft Start: Slowly restores power after an outage to reduce peak demand on power utility or on a backup generator.

TECHNICAL DATA

SUPPLY	
Main supply / frequency	85-250V, 50/60 Hz
MECHANICAL	
Dimensions	8.7" x 10.6" x 5.5" (u-1)
COMMUNICATION	
Protocol	Modbus
Interface	RS-485

INPUTS	
Temperature Inputs	10k @ 77°F (25°C), NTC
OUTPUTS	
1 X Alarm Relay	SPDT (1 Form C) 3A @ 24 VDC (resistive) 3A @ 240 VAC (resistive)
2 X TRIAC Outputs	15 A @ 240 VAC (resistive)



THE UNITY NATVENT CONTROLLER OFFERS A WIDE RANGE OF CAPABILITIES AT A VERY COMPETITIVE PRICE.

BENEFITS

- LCD Display.
- Weather station option to automatically adjust curtains when windy and/or rainy. Takes into consideration the direction of the wind or rain.
- 16 and 24 output versions.
- Expansion solutions with slave units.
- Novel sun override.
- Ability to control other functions like fans, lighting, foggers/misters.
- Winter mode enables seasonal control strategies.



FEATURES

- Controls 4 curtains.
- Controls 2 on/off fans or heaters (10 amp, 115/230v) with cycle timer option.
- Supports 5 temperature probes, 1 outdoor (option).
- Curtain timers accurate to 1 second.
- Limit curtain openings in winter without having to adjust actuator limit switches.
- Automatic curtain timer adjustment for sudden temperature changes.
- Manual curtain movement with latching and automatic calibration.
- High and low temperature records.
- One page summary and led indicators for curtains and on/off stage activity.
- High and low alarm settings option.
- Has variable speed triac control and 0-10V outputs if required.
- Easily updatable via USB and that you can upload existing programs onto new Unity's to cut down on the initial setup time.
- Can handle a humidity sensor.

TECHNICAL DATA

POWER SUPPLY	
Main line voltage & frequency	85-250V, 50/60 Hz
Main fuse	1A-250VAC, fast acting (5x20 mm)
INPUTS	
Temperature input	10 kilohms @ 77°F (25°C), NTC
Potentiometer input	0-10 kilohms
Analog input	4-20mA
Pulse counter input	Pulse width > 10 ms
OUTPUTS	
Alarm relay	SPDT (1 C form) 3A @ 24 VDC (resistive) 3A @ 240 VAC (resistive)
Relay output	SPST (1 Form A) 15A @ 24 VDC / 15A @ 240 VAC (resistive) 1 HP @ 120 VAC / 2 HP @ 240 VAC (inductive)
Fuse for relay output	15A slow blow
Fuse for variable output	10A slow blow
COMMUNICATION	
Protocol	Modbus
Interface	RS-485
MECHANICAL	
Dimensions	21.9" X 12.1" X 7.1"
Operating temperature range	32° to 104°F (0° to 40° C)
Storage temperature	5° to 122° F (-15° to 50° C)
Relative humidity	5 to 90% non condensing



MODULAR | CUSTOMIZABLE | USER-FRIENDLY | VERSATILE

The versatile Unity family of products is designed to adapt to a variety of environmental control situations for all kinds of farm buildings, including poultry houses, hog barns and even greenhouses.

The easy-to-use interface allows users to define their own control strategy according to their specific environment. By itself, a single unit will support up to 24 outputs; but with the expansion port, it can accommodate up to 96 outputs.

Unity controllers were designed with your needs in mind. An optional web server allows you to view your production remotely.



FEATURES

- Variables outputs.
- Variable DC signal outputs.
- Relays.
- Inlet-actuator control.
- Curtain control.
- Tunnel-ventilation mode.
- Duty cycle and timed events.
- Slave-unit capability (Solo units may be used).
- cCSAus certified for wet locations.



MODELS

	UNITY 6016	UNITY 6024	UNITY 6116	UNITY 6124
TYPE	Standard Units	Standard Units	Standard Units	Standard Units
OUTPUTS	16	24	16	24
TOGGLE SWITCHES	No	No	Yes	Yes
MODELS	6016-16.0 16 relay outputs	6024-24.0 24 relay outputs	6116-16.0 16 relay outputs	6124-24.0 16 relay outputs
	6016-14.2 2 variable outputs 14 relay outputs	6024-22.2 2 variable outputs 22 relay outputs	6116-14.2 2 variable outputs 14 relay outputs	6124-22.2 2 variable outputs 22 relay outputs
	6016-12.4 4 variable outputs 12 relay outputs	6024-20.4 4 variable outputs 20 relay outputs	6116-12.4 4 variable outputs 12 relay outputs	6124-20.4 4 variable outputs 20 relay outputs

	UNITY 6216	UNITY 6224	UNITY 6316	UNITY 6324
TYPE	Expansion Units	Expansion Units	Expansion Units	Expansion Units
OUTPUTS	16	24	16	24
TOGGLE SWITCHES	No	No	Yes	Yes
MODELS	6216-16.00 16 relay outputs	6224-24.0 24 relay outputs	6316-16.0 16 relay outputs	6324-24.0 16 relay outputs
	6216-14.2 2 variable outputs 14 relay outputs	6224-22.2 2 variable outputs 22 relay outputs	6316-14.2 2 variable outputs 14 relay outputs	6324-22.2 2 variable outputs 22 relay outputs
	6216-12.4 4 variable outputs 12 relay outputs	6224-20.4 4 variable outputs 20 relay outputs	6316-12.4 4 variable outputs 12 relay outputs	6324-20.4 4 variable outputs 20 relay outputs

ADDITIONAL FEATURES INCLUDE:

- Manual override.
- Custom growth curves.
- Outdoor temperatures.
- Humidity-monitoring and control ability.
- Nighttime set-points.
- Compensation for static pressure.
- Water-use monitoring.
- Alarm with outside temperature compensation.
- Detailed alarm history.
- De-icing start.
- Computer compatibility.
- Upgradeable firmware.
- Transferable settings.
- Memory protection in the event of power failure.
- Compatible with most ventilation strategies: natural, forced, and tunnel ventilation.
- You can determine which temperature sensors affect which controls.



CANARM LTD. - Corporate Office
PO Box 367 2157 Parkedale Ave.,
Brockville, ON
Canada K6V 5V6
Tel: (613) 342-5424 Fax: 1-800-263-4598

Arthur Manufacturing Facility
#7686 Concession 16, RR 4
Arthur, ON
Canada N0G 1A0
Tel: (519) 848-3910 Fax: (519) 848-3948

Montréal Warehouse
2555 Rue Bernard Lefebvre
Laval, PC
Canada H7C 0A5
Tel: (450) 655-2535 Fax: (450) 665-0910

CANARM LTD. - USA Warehouse
808 Commerce Park Drive
Ogdensburg, New York,
USA 13669
Tel: 1-800-267-4427 Fax: 1-800-263-4598

ALL-IN-ONE | UPGRADEABLE | FLEXIBLE | USER-FRIENDLY

INCREASED FLEXIBILITY IN HUMIDITY CONTROL

EVEN MORE USER FRIENDLY VENTILATION PROGRAMMING

NOW WITH CURRENT SENSING CAPACITY FOR ALL RELAY AND VARIABLE OUTPUTS

Are you looking for an integrated-management system for your animal production buildings? One you can adapt to your needs? You want an intelligent and reliable tool that will let you manage your production remotely? And one that's affordable?

INTRODUCING NANO. UNIQUELY FLEXIBLE.

The electronic architecture used for Nano stands out from the competition. It was designed to let you configure the product according to your needs. The configuration is remarkably flexible and easy to update enabling you to follow market trends, or technological breakthroughs.

FEATURES

- Optimization of the temperature and the ambient air quality through the combined management of the ventilation, air inlets and heating.
- Temperature, min and max ventilation parameters can be programmed according to animal age.
- Management of the air inlets, ventilation, heating, fogger, lighting, feed lines and feed bins.
- Management of dedicated equipment via timers.
- Ventilation adjustments with outdoor temperature compensation and night adjustment.
- Air inlet compensation according to static pressure.
- Humidity compensated by heating and ventilation.
- Option to program 8 lighting periods according to animal age.
- Excellent decision support tools are provided through reports and histories produced.
- True bypass switches let you easily take control of your outputs.
- Clever clean wiring for easy access.
- Full remote access and control from anywhere when an Internet connection is available and the PC compatible software is installed.
- Independent cards for easy maintenance.



SIMPLE

The simplicity of Nano is unique. You can easily program each piece of equipment in your production building. You get clear information that is accessible via the Internet or on the touch screen, which is illustrated with meaningful icons.

UPGRADEABLE

It will always be easy for you to update Nano according to your needs, market trends, or technological breakthroughs.

COMPLETE

Thanks to its modular design, Nano allows you to control a wide variety of equipment types:

- Fans.
- Heating.
- Air inlets.
- Lighting.
- Foggers/Misting.
- Feed lines.
- Auger.
- Bird Scale.
- Bin Scale.
- Timers.
- Water meters.
- Temperature, humidity and static pressure sensors.



ALL-IN-ONE | UPGRADEABLE | FLEXIBLE | USER-FRIENDLY

INPUTS/OUTPUTS

The Nano-24 can be equipped with up to 24 outputs and the Nano-36 supports up to 36 outputs. Each unit includes a graphical colour touchscreen and an optional communication port (wireless or Ethernet).

The Nano communication platform allows you to control your production activities from any Web connected device. A Nano unit supports the following types of inputs and outputs:

INPUTS (MAXIMUM AVAILABLE)

- 6 indoor-temperature sensors.
- 1 outdoor-temperature sensors.
- 3 inputs to share between humidity, static pressure, Ammonia and CO2 sensors.
- 3 remote lighting controls.
- 6 inputs to share between water meter, auger run time, feed line run time.

OUTPUTS (MAXIMUM AVAILABLE)

- 16 fans.
- 4 main air-inlet zones.
- 4 secondary air-inlet zones.
- 6 heating zones.
- 8 lighting outputs.
- 12 timers.
- 4 feed lines.
- 4 feed bins.
- 1 fogger/mist.
- 3 alarm contacts.



THE COMPLETE LINE OF CANARM-INTELIA CONTROLS



**UNITY
CLIMATE CONTROL**



**SOLO - CLIMATE CONTROL
FORCED VENTILATION**



**FLICKER FREE
LED LIGHT DIMMER**



NANO CONTROL



SUPERIOR CONTROL OVER BIRD WEIGHT UNIFORMITY

One of the best ways to manage a poultry flock is to control their average body weight and uniformity.

The Scale System is the most complete bird weighing system on the market.

It automatically weighs, records and performs all the statistical calculations needed to optimize the weight control of your flock. With the scale, you can effectively track and manage your yields, ensure that you reach your targets and make better decisions regarding the management of your production.

- A single controller can monitor up to six platforms.

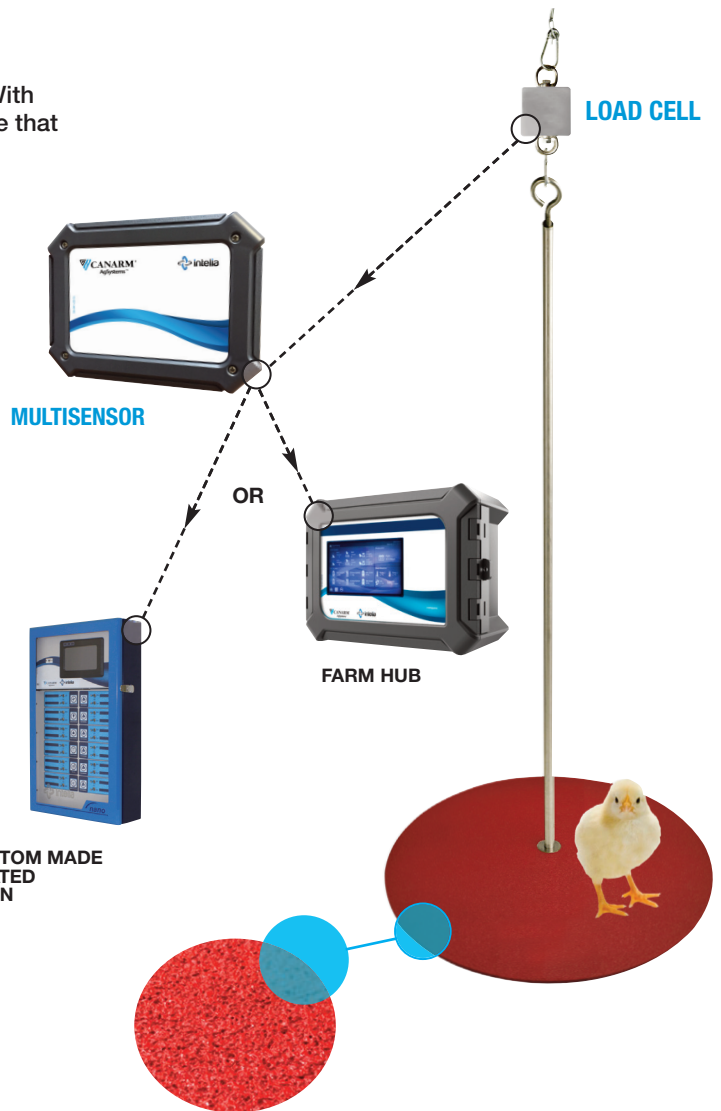
UNIQUE DURABLE COATING

- Made of polyurea elastomer
- LIFETIME warranty on the plate!
- Water & dust resistant
- Pressure washer safe
- Anti-skid

TECHNICAL SPECIFICATIONS

- 20 inch diameter steel platform
- 25-pound platform for extra stability
- Easy to install and setup
- Stainless steel hanging rod
- Outstanding accuracy
- Exceptional weighing speed
- Chain & hook included

COMPASS™ DATA ANALYTICS PLATFORM



**EASY TO USE AND TO PROGRAM | HIGH QUALITY | USER-FRIENDLY DESIGN
COST EFFECTIVE | EASY TO INSTALL**

Easy-to-use function keys

Status-indicator lights

Clear LCD display with backlight

Easy-to-use navigation wheel



The Climate Control Solo units are designed to automatically control heating, cooling devices, air inlets and fixed or variable speed fans at a low cost thus providing a healthier and optimized environment to animals. Alarms can be displayed on the controllers and external alarm devices may be connected to it.

FEATURES

- Temperatures displayed in Fahrenheit or Celsius
- Memory protection in the event of power failure
- Alarm contact (NO/NC) in case of power failure, min/max temperatures or fault in operation
- Optional electronic bypass switches
- Overload protection on the output

FUNCTIONS

- Ventilation, Heating & Cooling
- Inlet & Curtain Operation (on specific models)
- Programmable growth curves



MODELS

FEATURES	MASTER UNITS											EXTENSION UNITS				
	CC-8.2.2	CC-8.2	CC-8.0	CC-7.3	CC-6.2.2	CC-6.2	CC-6.0.2	CC-5.3	CC-4.2	CC-4.0.2	CC-3.1.1	CC-2.0	CC-1.1	CC-1.0	CC-0.2	CC-0.1
Number of relay outputs (Stop/Start)	8	8	8	7	6	6	6	5	4	4	3	2	1	1	0	0
Number of variable outputs (TRIAC)	2	2	0	3	2	2	0	3	2	0	1	0	1	0	2	1
Number of variable outputs (0-10V)	2	⊘	⊘	⊘	2	⊘	2	⊘	⊘	2	1	⊘	⊘	⊘	⊘	⊘
Analog inputs for: • Static pressure • Relative humidity	✓	⊘	✓	✓	✓	✓	✓	✓	✓	✓	✓	⊘	⊘	⊘	⊘	⊘
Control of slave units allowed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	⊘	⊘	⊘	⊘	⊘
Standard applications • Temperature • Forced ventilation • Timer • Production • Alarms • History • Manual Control • Diagnostic • Configuration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓*	✓*	✓	✓*	✓
Advanced applications • Natural ventilation • Air Inlet • Humidity • Fogger	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	⊘	⊘	⊘	⊘	⊘

⊘ = Not Available ✓ = Available

* History is a standard feature, but the smaller units with 2 outputs don't have it because there is not enough room to include it.

TECHNICAL DATA

INPUTS/OUTPUTS

INPUTS	
Temperature Input	10 KΩ @ 77°F (25°C), NTC
Potentiometer Inputs	1 to 10 KΩ
Analog Inputs	4-20 mA or 0-5VDC
Pulse Counter Input	Pulse width > 10 ms
OUTPUTS	
Alarm Relay	SPDT (1 Form C) 3A @ 24 VDC (resistive) 3A @ 240 VAC (resistive)
Relay Output	SPST (1 Form A) 10A @ 24 VDC (resistive) 10A @ 240 VAC (resistive)
TRIAC Variable Output	10A (resistive) 10A @ 120 VAC 10A @ 240 VAC (inductive)
0-10V Variable Output	0-10VDC, source Maximum load: 10mA

DIMENSIONS

MODELS	DIMENSIONS
Small Models	8.7"W x 10.6"H x 5.5"D
Large Models	13.4"W x 9.8"H x 5.9"D

POWER SUPPLY

POWER SUPPLY	SPECIFICATION
Main line voltage & frequency	85-250V, 50/60 Hz
Main fuse	1A-250VAC, fast acting (5x20 mm)

NETWORK COMMUNICATION

PROTOCOL	INTERFACE
Modbus	RS-485



K-KONTROL THERMOSTATS

Low cost, dependable K-Kontrol thermostats

FEATURES

- Single KJ16110, portable single KP16110 and two KT16110 stage models.
- Reliable Johnson thermostats.
- Moisture proof box.
- Stainless steel coil and portable hanger.
- Use anywhere portable model - simply plug control into outlet and then the device into the control.
- Two stage model for two stages of heating and/or cooling or two speed fans.
- 1 year warranty.



CONVENIENT FLIP
OPEN COVER



KJ16110
KT16110
KP16110

SUNNE THERMOSTATS

Higher Amp Rated SUNNE thermostats

FEATURES

- Single stage thermostat for heating or cooling.
- NEMA 4 enclosure.
- Larger, easy read, 40 - 100° F dial.
- Multi position mounting.
- Higher amperage rating.
- 16 amp rating @ 120 V & 12 amp rating @ 240 V.
- Stainless steel coil.
- 1 year warranty.



TF115

RANCO THERMOSTATS

Digital, programmable RANCO thermostats

FEATURES

- Single stage models.
- Easy to read LCD display.
- Programmable differential (1 to 30° F).
- Wide operating range (-30 to 220° F).
- NEMA 4 enclosure.
- 8' temp probe included (extendable to 400').
- User selectable F/C°.
- Lockout switch.
- 1 year warranty.



T1NEMA4D1

FC-1VAC

FEATURES

- One variable speed output (12.5 A at 120/230 VAC general purpose resistive, 9 FLA at 120/230 VAC PSC motor).
- Minimum/maximum calibration.
- ON/OFF switch.
- May also be used as a light dimmer to power up to five, 250 Watt brooder lamps.
- 115 or 230V AC operation.
- 2 year limited warranty.



FC-1T-1VAC

FEATURES

- One variable speed output
- Adjustable temperature set point, range: 40 to 90°F (4 to 32°C)
- Fixed 6°F temperature differential
- Automatic shut-off and idle modes
- Off set-back of 2°F for shut-off mode
- Adjustable idle speed for automatic mode
- One-foot temperature sensor, extendable to 500 feet
- Overload protection fuse
- NEMA 4X enclosure (Corrosion-resistant, water-resistant, and fire-retardant)
- CSA approval
- 2 year warranty



FC-1T-1VDC

FEATURES

- Automatic temperature-based control, range: 32 to 99°F (0 to 37°C)
- One variable 0 to 10 VDC output
- One disconnect relay
- Alarm relay (for external alarm system or siren)
- Three-second full-power-turn-on for minimizing fan ice-up
- Three-character LED display
- Status and programming LEDs
- Alarm code display
- Customizable alarm settings
- Power-failure settings protection
- Six-foot temperature sensor, extendable to 500 feet
- NEMA 4X enclosure (Corrosion-resistant, water-resistant, and fire-retardant)
- cCSAus approval
- 2 year warranty



P9500

Dwyer Mark II molded manometer

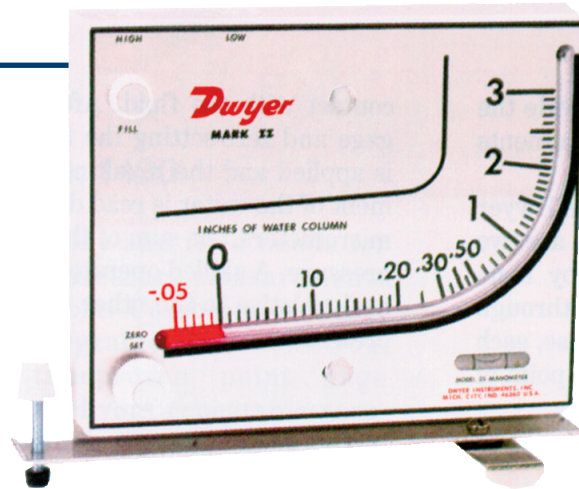
FEATURES

The Dwyer Mark II series molded manometer has a curved inclined-vertical tube that provides higher ranges with easily read increments at low readings.

The manometer should be used in all static pressure ventilated buildings to ensure proper inlet and fan coordination and sizing. Improper static pressure will result in poor ventilation and possible building or exhaust fan damage, as well as poor livestock production.

The manometer should be used as an aid for setting up proportional inlet controls.

- 2 year limited warranty

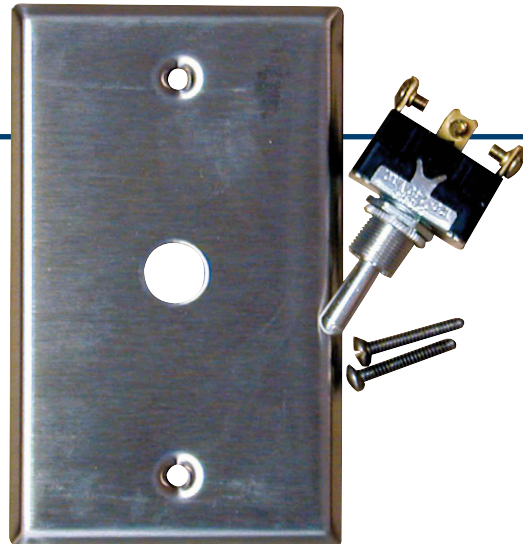


TS-15

Manual control for 2 speed fans

FEATURES

- High/low/off SPDT switch.
- For dry locations.
- 2 year limited warranty.



MC CONTROL

APPROVED FOR USE ON SD FANS - IN DRY LOCATIONS ONLY!



MC-5



MC-10



MC-15

FEATURES

- Minimum speed adjustment screw.
- Designed to fit a standard 3" x 5" electrical box.
- Mount in a dry location.
- Also available in 230V/1/60HZ.
- 1 year limited warranty.

NOTE: Not for use on PLF/FG/PF/CA-AG/TF fans.

PERFORMANCE DATA AND SPECIFICATIONS

PART #	MODEL	POWER SUPPLY	AMPERE RATING
CN5041	MC-3	120V/1/60HZ	2.5
CN5061	MC-5		5.0
CN5101	MC-10		10.0
CN5151	MC-15		12.0
CN5061-230	MC-5-230	230V/1/60HZ	5.0