

C1.x Instruction Manual Supplement for Model 16 and 24

Submenus for Screens 6, 8, and 9

If screen 6, 8, or 9 is selected a submenu listing of choices will appear (see example figure below).

```
(use _ to open choice, _ to return)
Mortality
Management
Reset data
```

Screen 9 Submenu listing

Use the Up Arrow or the Down Arrow to highlight the desired submenu choice. Then press the Right Arrow key to enter the desired submenu screen. To return back to the submenu list, make sure the control is out of the edit mode, then press the Left Arrow to return to the submenu list.

Back-up Thermostat Reminder

```
Adjust your backup settings
because of temperature change
```

```
Press any key
```

Adjust Backup settings reminder pop-up screen

A pop up window will appear every time the set temperature is changed by more than 2 degrees reminding the user to adjust the back-up thermostats in the house. This window will appear whether the set temperature is changed manually or by the set temperature curve. To clear the window press any key.

Heat Zone Off Temperatures-Screen 3

ON	OFF	OUTPUT	TIMER
72.0		Set temperature	
71.0	71.5	Ht Zone 1	(0:00)
71.0	71.5	Ht Zone 2	(12:15)
71.0		Ht Zone 3	(0:34)

Each Heat Zone can have its own "Off" temp up to 10.5 degrees above set temperature. If no temperature is entered into the "Off" temperature column, then the Heat Zone will shut off at .5 degrees above the "On" temperature. To remove an "Off" temperature from a Heat Zone, raise the Heat Zones "Off" temperature to be more than 10.5 degrees above the Set Temperature.

Feed, Light and Spare Clock(s)-Screens4,5

CURRENT	FEED	CLOCK	Day	1	Curve	ON
ON at	OFF at		ON at	OFF at		
1.	12:00a	11:59p	5.	----	----	
2.	----	----	6.	----	----	
3.	----	----	7.	----	----	
4.	----	----	8.	----	----	

BP	1	FEED	CLOCK	CURVE	Day	001
ON at	OFF at		ON at	OFF at		
1.	12:00a	11:59p	5.	----	----	
2.	----	----	6.	----	----	
3.	----	----	7.	----	----	
4.	----	----	8.	----	----	

Feed Clock using "On At", "Off At" format

CURRENT FEED CLOCK			Events = 4
	START	RUN FOR	
1.	12:00a	11:59:00	
2.	----	-----	
3.	----	-----	
4.	----	-----	

Feed Clock using "Runtime" format

An "On At" and an "Off At" may now be entered to go past Midnight (for example "On At" 10:00p, "Off At" 2:00a) in all clocks. If the clock is to be on continuously (24 hours per day) then the "On At" and "Off At" times must match ("On At" 12:00a, "Off At" 12:00a).

Feed Clock- The Feed clock can be set up to have "On At" and "Off At" format, or a "Start" and "Run for" (Runtime) format (see screens below). The "On At", "Off At" format will still have a curve available. The "Start", "Run for" format will not have a curve available, but can have a maximum of 24 programmable events.

Daily History Screens-Screen 6.1, 6.2, 6.3

Daily Temperature/Heater History (Screen 6.1)-This screen shows the Maximum and Minimum temperatures and the Runtime of each of the Heat Zone outputs for the last 99 days plus today.

Daily Management History(Screen 6.2)-This screen shows the Daily total Mortality, and Daily Water Meter Usage for the last 99 days plus today.

Reset Daily History(Screen 6.3)-This is where the data in the Screen 6.1 and 6.2 is reset for the next batch.

Daily temperature / heater history					
DAY	MAX TEMP	MIN TEMP	HTZONE1		
7	71.1	10:33p	62.4	4:13a	0:00
6	71.1	10:33p	62.4	4:13a	0:00
5	71.1	10:33p	62.4	4:13a	0:00
4	71.1	10:33p	62.4	4:13a	0:00
3	71.1	10:33p	62.4	4:13a	0:00
2	71.1	10:33p	62.4	4:13a	0:00
1	71.1	10:33p	62.4	4:13a	0:00
00	71.1	10:33p	62.4	4:13a	0:00
99	etc.				
98	etc.				
.....					

Daily temperature/heater history

Daily management history		
Day	Mort.	Drink.
7	12345	12345
6	12345	12345
5	12345	12345
4	12345	12345
3	12345	12345
2	12345	12345
1	12345	12345
00	12345	12345
99	etc.	
98	etc.	
.....		

Daily management history

Alarm settings-Screen 7

Alarm system	Enabled
Tunnel Mode	
Max relative to set temp	+10.0 (82.0)
Min relative to set temp	-10.0 (62.0)
Natural Mode	
Max relative to set temp	+10.0 (82.0)
Min relative to set temp	-10.0 (62.0)
Power Mode	
Max relative to set temp	+10.0 (82.0)
Min relative to set temp	-10.0 (62.0)
High static pressure alarm	.13
Low static pressure alarm	.02

Alarms Screen

Maximum/Minimum temperature alarms for Power, Natural, and Tunnel Modes- Maximum and Minimum temperature alarms can now be set individually for Power, Natural, and Tunnel Modes.

Mortality-Screen 9.1

Mortality			
	Dead	Culled	Total
Picked Up	5	0	5
Agreed?	NO		
Today	4	2	6
Accum	180	20	200
%Mort	1.0	0.0	1.0
Curr Housed			24800
Init Housed			25000
Partially taken out			0

Mortality Screen

The Mortality screen is a submenu of Screen 9 (Mortality/Management). The number of dead and culled animals collected is entered on the Picked Up line. When agreed is changed to YES the number(s) entered in the picked up line will be added to the Today and the Accum lines. The %Mort and the Curr (Current) Housed will be recalculated. The total daily mortality will also appear in the Daily History (Screen 6) screen. The Mortality data can be reset by choosing Reset Data in the Screen 9 submenu listing.

Management-Screen 9.2

Management	
Cumulative water (drinker)	1234567
Water per (animal/1000 birds)	123.4

Management Screen

The Management screen is a submenu of screen 9. This screen will only appear if a water meter is connected to the control. The screen can show Cumulative drinking water consumed and the cumulative amount of water consumed per 1000 birds or per animal. The Management screen data can be reset in screen 9.3.

Static Pressure

Current static pressure			.05
Current SP limits:	High	.06	Low .04
	POWER		TUNNEL
	First	Second	
High control limit	.06	.06	.00
Low control limit	.04	.04	.00
Fixed inlet anticipation (sec)			25
Wind delay(sec)	12		

Static Pressure Screen with Fixed Anticipation Feature

Fixed Anticipation- An optional fixed anticipation feature is available. This feature allows the inlets to open the same amount of time every time before the fans assigned to Min Vent timer turn on. The control will not automatically calculate the anticipation time needed when this feature is used. When fixed anticipation is used, the Min Vent timer's minimum "On" time becomes 5 seconds. If fixed anticipation is not selected the Min Vent timer's minimum "On" time is 30 seconds

The control will anticipate when the fans assigned to Min Vent timer come on due to the timer or due to the fans' "On" temperature being reached. This will occur with both fixed and calculated anticipation.

Current Static Pressure Limits- This is the High and Low static pressure limits currently being used by the control to operate the inlets and/or the tunnel curtain.

STATIC PRESSURE:			
Fixed inlet anticipation			YES
Tun inlet SP assist in power			YES
Second static pressure			YES
Select sensor		1-----	
LOW STAT PRES ALARM:			
In power mode			YES
In tunnel mode			NO

Tunnel inlet assist in Power-If tunnel inlet assist in power mode is desired then this feature should be set to "Yes" in Screen 12

Two Inlet Machine Relay Assignments

Inlet OP	22	24
Inlet CL	23	25

Two Open and Two Close relays can now be assigned to operate two inlet machines simultaneously.

Cool/Cool Pad Relay addition

Cool 4	2	T	---4-----
	3		
	-		
	-		
Cool pad	4	T	---4-----
	5		
	-		
	-		

Each Cool output and the Cool Pad output can have a maximum of 4 relays assigned to each output. The first relay must be assigned before the other 3 relay assignment positions will appear below it.

Cool Pad Function Addition

```
COOL PAD SETTINGS
Water pre fill time      8 sec
Water incr/decr time     5 sec
Repetition rate (mm:ss)  5:00
Temp check every 3 repetition rates
Full on at water on time 40 sec
Actual water on time     - sec
Max. water on allowed    300 sec
Flush cool pad at ---- for --:--
```

The line “Max water on allowed” has been added to the Cool Pad settings in Screen 12. This will allow the user to keep the cool pad from running continuously. The default setting is the amount of time of the Repetition rate in seconds.

Tunnel Fan in Natural mode

A tunnel fan can now be allowed to run in the Natural mode if desired.

The Setup Key-Optional Device

The Setup Key can be used to transfer the settings of one control to another similarly wired control. To use the Setup Key use the following procedure.

- 1.) First remove power to the control.
- 2.) Remove I/O to MS cable from the I/O board.
- 3.) Plug the Setup Key into the I/O board where the flat cable was connected.
- 4.) Restore power to the control. Press any key when Prompted
- 5.) After pressing any key, a Setup Key menu will appear asking whether to transfer from the control to the key or transfer from the key to the control.

```
The setup key menu

Transfer FROM control TO setup key  NO
Transfer FROM setup key TO control  NO

Current control:      MODEL 16 C1.0
Content setup key:    MODEL 16 C1.0
```

- 6.) Make desired selection. Answer Yes to the question “Are you Sure”
- 7.) When download is complete press any key when prompted.
- 8.) Remove power to the control.
- 9.) Remove Key.
- 10.) Replace I/O to MS cable.
- 11.) Restore power to control.