WELCO ENGINEERING

Controlled Environment Engineers
and
Feed Management Systems

"Welco" STICK™ WEIGHER

BIRD WEIGHER MENU

BIRD WEIGHER

WEIGHER	← INDEX
Av'age Weight	576
Average (lbs)	1.27
Current Ave	576
24hr Average	556
Target Weight	556
No. of Birds	68
24hr No Birds	66
Bird Weight	567
Reset Weigher	OFF
Weigher Setup ·····►	

This menu provides the user with considerable information relating to the weight of the birds, target weights and number of birds being actually weighed over a 24 hour period

AVERAGE WEIGHT
(Average Weight of Birds Weighed so far that Day)

This parameter indicates the average weight of weighed birds so far that day. The value indicated in grammes has been corrected according to the "**Bird Type**" parameter located in the **SYSTEM MENU** and will be reset at the "24hour reset" time.

AVERAGE (lbs)
(Average Weight of Birds Weighed so far that Day)

This parameter indicates the average weight of weighed birds so far that day in pounds.

continued...

CURRENT AVERAGE
(Current Average Weight of the last 20 Birds Weighed)

This parameter indicates the corrected average weight of the last 20 birds weighed and is continually updated as each bird is successfully weighed.

24HR AVERAGE
(Average Weight of Birds for Previous 24 Hours)

This parameter indicates the corrected average weight in grammes of weighed birds for the previous 24 hours upto the time when the “24 hour reset” has been applied.

TARGET WEIGHT
(Anticipated Bird Weight for a given Day)

This parameter indicates the expected average weight in grammes for a particular day according to the **Growth Curve** which has already been entered in the ***STICK*** controllers memory.
See Growth Curve Menu.

NO. OF BIRDS
(Total Number of Bird Weighed so far that Day)

This parameter informs the user of the number of birds that have been successfully weighed so far that day. The value will be automatically updated at the “24 hour reset” time.

24HR NO. BIRDS
(Total Number of Bird Weighed in the previous 24 Hours)

This parameter informs the user of the number of birds that have been successfully weighed in the previous 24 hours upto the reset time. The value will be automatically updated at the “24 hour reset” time.

BIRD WEIGHT
(Total Number of Bird Weighed so far that Day)

This uncorrected weight in grammes of the last successfully weighed bird is recorded by this parameter and is updated by each successful bird weighing.

RESET WEIGHER
(Manual Weigher Reset)

This facility is useful should the weigher be moved to another part of the building or “short term” monitoring be required. The **Average Bird Weight** and **Number of Birds** parameters can be manually reset by moving the cursor to the right when this parameter is selected and then pressing the joystick down once. Immediately reset is applied and this is indicated by a momentary display of **ON** instead of **OFF**

Note:- Selecting the Weigher Setup parameter and then using the joystick to move the cursor to the right enables the user to interrogate the **WEIGHER SETUP MENU.**

Continued...

WEIGHER SETUP MENU

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WEIGHER SETUP

WEIGHER SETUP: ↑ ↓ ←	
Tare Weight	130
Weigher O'put	0
Calibration	100
Tare Limit (g)	160
Accept Low %	20
Accept High %	20
Pause Time	1.0
AcceptTime	1.0
Growth Curve Points	10
Growth Curve ·····▶	

This menu permits the commissioning engineer to setup the correct operation of the weigher with respect to calibration, weight limits and time requirements.

TARE WEIGHT
(Weight of Scale with No Birds on Plate)

This parameter informs the user of the weight in grammes of the scale with no bird on the weigher plate.
The value is updated each time the plate becomes empty and is therefore useful for fault diagnosis if it is suspected that the scale is not performing correctly.
The typical range for this parameter is between 50 and 200 grammes.

WEIGHER OUTPUT
(Weigher Output Value less than Tare Weight)

This parameter informs the user of the weight in grammes on the weigher plate less the tare weight. The value displayed represents the instantaneous weight on the platform at any moment in time it can be useful for fault diagnosis and calibration

CALIBRATION
(Manual Scale Calibration Adjustment)

This parameter value may be adjusted to manually trim the calibration of the scale . The value selected should normally be **100**, but it may be adjusted by a maximum of + or - **50** if necessary.

TARE LIMIT
(Empty Scale Weight Limit)

This parameter informs the user of the empty scale weight limit indicated in grammes. The normal value used is typically 30 grammes.

ACCEPT LOW %
(Lower Bird Weight Acceptance Tolerance)

This parameter informs the user of the lower tolerance limit for the bird weight to be accepted as a valid recorded weight and is taken as a percentage of the Target Weight for each particular day.

Continued...

GROWTH CURVE MENU

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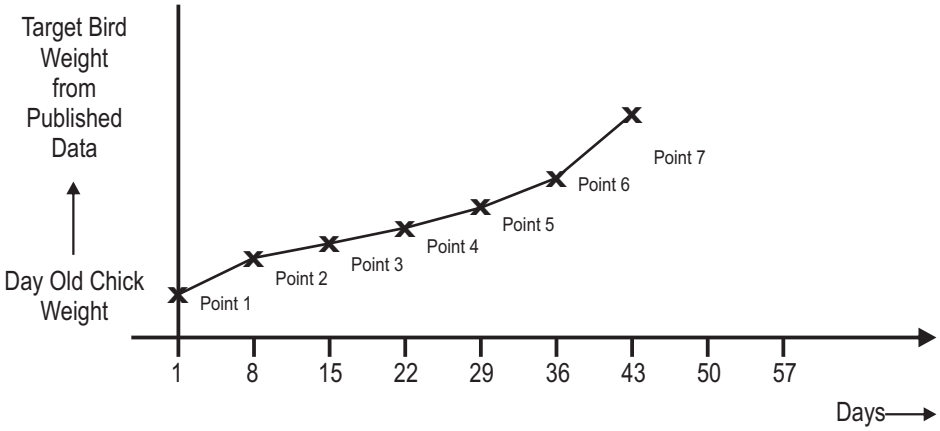
GROWTH CURVES

GROWTH CURVE: ← ↑	CNFIG
Day	1
Point Number	1
Target Weight	42

This menu permits the commissioning engineer and the site Manager to program the **STICK** controller the anticipated crop growth information published that relates to for example, Ross Cobb or other types of birds.



DAY
(Day Number of Crop Cycle)

This parameter provides the day number of the crop cycle that each particular point on the weight curve applies. For example, **Day 8** commences **Point 2, Day 15** commences **Point 3**, etc. It is advisable to chose values at a regularly spaced intervals commencing at day 1

POINT NUMBER
(Point Number on Growth Curve)

A particular point on the growth curve is identified by this parameter number. Changing this number informs the site manager of the **Day Number** and **Target Weight** for each point on the growth curve.

Note:- **Point 1** Should correspond with **day 1** and the expected day old chick weight

TARGET WEIGHT
(Expected Bird Weight)

This parameter permits the site manager and the commissioning engineer to program into the microcomputer the anticipated bird weight in grammes for each given point on the growth curve.

Note:-
Large numbers can be inputted by moving the joystick right twice. This toggles between adjustments in 1's and 100's