🅢 Brecknell

CC-804 Coin Counting Scale

Operation & Service Manual

V1.0

Contents Subject to Change without Notice

Brecknell

Brecknell, a trading name of Avery Weigh-Tronix Ltd.
Foundry Lane, Smethwick, West Midlands, B66 2LP, England

C E

Declaration of Conformity	Konformitätserklärung
Verklaring van Overeenstemming	Dichiarazione di conformità
Déclaration de Conformité	Declaración de Conformidad

Manufacturer	Avery Weigh-Tronix Limited	Fabrikant	Avery Weigh-Tronix Limited	Fabricant	Avery Weigh-Tronix Limited
Type	Brecknell CC-804	Type	Brecknell CC-804	Type	Brecknell CC-804

corresponds to the requirements of the following EC directives:		is in overeenstemming met de voorschriften van de volgende EG richtlijnen:		correspond aux exigences des directives CE suivantes :	
EMC Directive	2004/108/EC	EMC Richtlijn	2004/108/EG	Directive CEM	2004/108/CE
Low Voltage Directive	2006/95/EC	Laagspanningsrichtlijn	2006/95/EG	Directive Basse Tension	2006/95/CE

The applicable harmonised standards are:		Toegepaste geharmoniseerde normen:		Les normes harmonisées applicables sont :	
EN60950-1:2006+A12:2011	EN61000-6-1:2007 EN61000-6-3:2007	EN60950-1:2006+A12:2011	EN61000-6-1:2007 EN61000-6-3:2007	EN60950-1:2006+A12:2011	EN61000-6-1:2007 EN61000-6-3:2007

Avery Weigh-Tronix Limited
Reg. Office: Foundry Lane, Smethwick,
West Midlands B66 2LP, England.
Registered in England No: 595129

Hersteller	Avery Weigh-Tronix Limited	Produttore	Avery Weigh-Tronix Limited	Fabricante	Avery Weigh-Tronix Limited
Typ	Brecknell CC-804	Modello	Brecknell CC-804	Tipo	Brecknell CC-804

entspricht den Anforderungen folgender EG-Richtlinien:		è conforme alle caratteristiche previste dalle seguenti direttive CE:		conforme a las exigencias de las siguientes directivas CE:	
EMV-Richtlinie	2004/108/EG	Normativa EMC	2004/108/CE	Directiva CME	2004/108/CE
Niederspannungs Richtlinie	2006/95/EG	Normativa per la bassa tensione	2006/95/CE	Directiva de baja tensión	2006/95/CE

Die angewendeten harmonisierten Normen sind:		Le norme standard armonizzate e nazionali applicate sono:		Las normas armonizadas en vigor son:	
EN60950-1:2006+A12:2011	EN61000-6-1:2007 EN61000-6-3:2007	EN60950-1:2006+A12:2011	EN61000-6-1:2007 EN61000-6-3:2007	EN60950-1:2006+A12:2011	EN61000-6-1:2007 EN61000-6-3:2007

Avery Weigh-Tronix Limited
Reg. Office: Foundry Lane, Smethwick,
West Midlands B66 2LP, England.
Registered in England No: 595129

Signature/Name Handtekening/Naam Signature/Nom Unterschrift/Name Firma/Nome Firma/Nombre	S. Hine Head of R & D (UK)	Authorised signatory for Avery Weigh-Tronix Limited Namens van Avery Weigh-Tronix Limited Signataire autorisé d'Avery Weigh-Tronix Limited Unterschriftsberechtigter für Avery Weigh-Tronix Limited Firmatario autorizzato per Avery Weigh-Tronix Limited Firmante autorizado para Avery Weigh-Tronix Limited	1 November 2012	Date Datum Date Datum Data Fecha

76501-373 Issue 1

CC-804 Coin Counting Scale Operation Manual

Thank you for purchasing the CC-804 coin counting scale. Please read all operating instructions carefully before use and keep the following points in mind:

* Avoid lengthy exposure to extreme heat or cold, your scale works best when operated at normal room temperature. Always allow the scale to acclimate to a normal room temperature before use

* Allow sufficient warm up time. Turn the scale on and wait for a few minutes if possible, to give the internal components a chance to stabilize before weighing.

* These electronic scales are precision instruments. Do not operate near an in-use cell phone, radio, computer or other electronic device. These devices emit RF and can cause unstable scale readings. If your scale ever performs poorly, try moving the scale to a different room or location.

* Avoid using in condition of heavy vibration and airflow.

* Read the weight reading in short time after loading. The output signature of load cell and A/D may be little influenced after weighing for a long time.
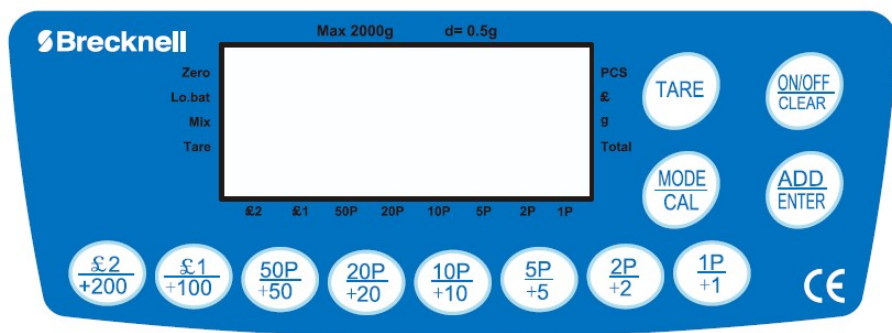
. Specifications:

1. Capacity：2000.0g×0.5g
2. Weight against the maximum accumulation value: 1677721.5g. When weight exceeds 19999.9g, it will be displayed twice. Take 123456.7g for example, scale will display "H.123g" and "L456.7g" alternately.
3. Max. accumulated counting data: 16777215. When accumulated data is over 199999, the data will be displayed in higher and lower 4 digits alternately. For example, the data is 1234567, the data will be shown as "H 123" and "L4567".
4. Power supply: 6Vdc,500mA with negative center, AC adaptor or 4 x "AA" size cells.
5. Max display weight: 2004.5g.
6. Operating current:: ≤200mA.

7. Scale will display "Error" when the accumulation value exceeds 16777215 (except decimal)

Ⅱ. Zero and Tare

1. Power-on zero point range: calibration zero point ±20%FS, scale can be auto-zero setting within this range. When it is out of this range, scale will display 0 ‾ ‾ ‾ ‾ or 0_ _ _ _ and still use current weight as power on zero-point;
2. Tare: press **TARE** key to tare the weight. This function can be activated only when the scale is in stable mode and the gross weight is not negative value.

Ⅲ. Faceplate and key function:

1. Display symbol meaning:
1) ZERO◄: The scale is at zero point and the gross weight is 0
2) Lo.bat◄: The voltage of batteries or input power is below 4.8V.
3) Mix◄: This sign will be displayed under coin quantity counting and coin value counting status (namely the unit is PC or £). The scale can recognize whether there are different type of coin mixing in according to current weight, current coin type and its weight, and tolerance. Please pay attention that the scale can not be made such recognition under the following circumstances:

a) The single weight of one kind coin just is the integral multiple of another kind coin's single weight. For example, take count of 1p coin (single weight =3.6g) and there is one 2p（single weight=7.1g）or 50p（single weight=8.0g）different type coin mixed in，the scale can only recognize that 1p coin quantity has increased 2pcs or 3pcs, but cannot recognize whether it is 2p or 50p coin that mixed in.
b) Even if the single weight of the mixed coin is not integral multiple of the currently chosen coin's weight, the scale cannot be make recognition also due to the weight tolerance. This situation can be improved by reducing tolerance.
   In summary, "Mix" indicating signs can be only taken as a reference. In the same way, for PCS/£ counting, if there are other type coins mixed in, the reliability will reduce greatly.
4) TARE◄: this sign displays when the tare weight is not zero.
5) ►PCS: coin quantity counting mode and normal objects counting mode indicator. Under coin quantity counting mode, the coin value（£2……1p) is on at the same time.
6) ►£: coin value as counting unit indicator
7) ►g: weighing mode indicator.
8) ►Total: coin weight accumulation("g" sign is on at the same time)，coin value accumulation（"£" sign is on at the same time)
9) ▼£2……▼1p: the currently chosen coin is £2……1p, this sign will not be on under weighing mode and normal objects counting mode.
10) Notice: When the gross weight is over 800.9g, scale will show "‾‾‾‾".

2. Keys function:
   There are four main working mode for this scale; counting mode, weighing mode, calibration mode and inner code checking mode. Counting mode can be divided into coin number counting mode, coin value counting mode and normal objects counting.

2.1 Enter or change the working mode:

2.1.1 Coin number counting mode:

When the scale is turned off , short press **ON/OFF/CLEAR** key，the scales will self-examine and then go into counting mode, ▶PCS and ▼￡2 is on at the same time.

2.1.2 Coin value counting mode:

Under the coin number counting mode, short press **MODE/CAL** key to enter this mode, and ▸￡ is on at the same time.

2.1.3 Weighing mode:

Under the coin value counting mode, short press **MODE/CAL** key to enter this mode, and ▶g is on at the same time.

2.1.4 Normal object counting mode:

Under the weighing mode, short press **MODE/CAL** key to enter this mode and ▶PCS is on; coin value indicator is off at the same time.

2.1.5 Calibration mode:

Long press **MODE/CAL** key under powering on mode until "CAL-0" is displayed.

2.1.6 Inner code checking mode:

Long press **ON/OFF/CLEAR** and **ADD/ENTER** key under powering on mode until "code" is displayed.

2.2 Keys function in the working mode:

2.2.1 Coin number counting mode:

2.2.1.1 Long press **ON/OFF/CLEAR**: Power off scales.

2.2.1.2 Short press **ON/OFF/CLEAR**: After the scale displays accumulation value, coin value accumulation will be cleared and exit accumulation mode.

2.2.1.3 Long press **ADD/ ENTER**: Scales display coin value accumulation until press any key (except **ON/OFF/CLEAR**) to return.

2.2.1.4 Short press **ADD/ ENTER**: Coin value accumulates, display 3s accumulation value and return.

2.2.1.5 Long press **TARE**: Set the zero point after the scale is stable, zero range：power-on zero point ±10%FS.

2.2.1.6 Short press **TARE**: Tare the weight. This function can be activated only when the scale is in stable mode and the gross weight is not negative value.

2.2.1.7 Short press ￡2……1p: Choose the type of coins.

2.2.2 coin value counting mode:

2.2.2.1 Long press **ON/OFF/CLEAR**: Power off scales.

2.2.2.2 Short press **ON/OFF/CLEAR**: After the scale displays accumulation value, coin value accumulation will be cleared and exit accumulation mode.

2.2.2.3 Long press **ADD/ ENTER**: Scales display coin value accumulation until press any key (except **ON/OFF/CLEAR**) to return.。

2.2.2.4 Short press **ADD/ ENTER**: Coin value accumulates, display 3s accumulation value and return.

2.2.2.5 Long press **TARE**: Set the zero point after the scale is stable, zero range：power-on zero point ±10%FS.

2.2.2.6 Short press **TARE**: Tare the weight. This function can be activated only when the scale is in stable mode and the gross weight is not negative value.

2.2.2.7 Short press ￡2……1p: Choose the type of coins.

Notice: Under coin number counting mode or coin value counting mode, if there are other type coins mixed in, "Mix" indicating lamp will flash for 5 times and then is on continuously.

2.2.3 Weighing mode:

2.2.3.1 Long press **ON/OFF/CLEAR**: Power off scales.

2.2.3.2 Short press **ON/OFF/CLEAR**: After the scale displays accumulation value, weight accumulation will be cleared and exit accumulation mode.

2.2.3.3 Long press **ADD/ ENTER**: Scales display weight accumulation until press any key (except **ON/OFF/CLEAR**) to return.

2.2.3.4 Short press **ADD/ ENTER**: Weight accumulates, display 3s

accumulation value and return.

2.2.3.5 Long press **TARE**: Set the zero point after the scale is stable, zero range：power-on zero point ±10%FS.

2.2.3.6 Short press **TARE**: Tare the weight. This function can be activated only when the scale is in stable mode and the gross weight is not negative value.

2.2.4 Normal objects counting:

1) Entering method: Under weighing mode, short press **MODE/CAL** to enter this mode.

2) When scale shows "SPL. ——", put samples to be counted on platter.

3) After short press ADD/TOTAL, "——" of "SPL.——"will flash.

4) When scale is reading stable, scale will show "0 PC", and "0" will flash. Use **￡2/+200, ￡1/+100, 50p/+50, 20p/+20, 10p/+10, 5p/+5, 2p/+2** and **1p/+1** to key in quantity of sample on platter (0-1999); use **ADD/ ENTER** to confirm.

5) Short press MODE/CAL to enter coin number counting mode.

Notice: 1) The weight of sample must be over 0.

2) Before key in the quantity of sample, scale must be stable.

3) The quantity of sample must be over 0.

4) The piece weight must be over 0.05g.

5) If the piece weight is less than 0.1g, the accuracy will reduce greatly.

6) If the quantity of sample is bigger, the accuracy of counting will be better.

Keys function under this mode:

2.2.4.1 Long press **ON/OFF/CLEAR**: Power off scales.

2.2.4.2 Short press **ON/OFF/CLEAR**: After the scale displays accumulation value, accumulation will be cleared and exit accumulation mode.

2.2.4.3 Long press **ADD/ ENTER**: Scales display quantity accumulation

until press any key (except **ON/OFF/CLEAR**) to return.

2.2.4.4 Short press **ADD/ ENTER**: quantity accumulates, display 3s accumulation value and return.

2.2.4.5 Long press **TARE**: Set the zero point after the scale is stable, zero range：power-on zero point ±10%FS.

2.2.4.6 Short press **TARE**: Tare the weight. This function can be activated only when the scale is in stable mode and the gross weight is not negative value

2.2.5 Calibration mode:

2.2.5.1 Entering method: Long press **MODE/CAL** key under powering on mode until "CAL-0" is displayed.

2.2.5.2 Short press **ON/OFF/CLEAR**: Exit calibration mode, start to initialize and go into coin number counting mode.

2.2.5.3 Press **ADD/ ENTER** : confirm and go to next step. Calibration steps are as follows:

1) When screen displays "CAL-0", press **ADD/ ENTER** key (Please make sure that there is no weight on the scale), "0" of "CAL-0" will flash. At this time, scale is reading stable calibration zero point. After reading, scale will go to next step.

2) When screen displays "CAL-F"，put 500g weight on the enter of scale, press **ADD/ ENTER** key, "F" of "CAL-F" will flash. At this time, scale is reading the stable signal of full capacity. After reading, scales will go to next step.

3) When scales display "CAL-0" again，remove 500g weight from scale pan, press **ADD/ ENTER** key. "0" of "CAL-0" will flash again, which means scales reads stable calibration zero point again. After reading, scales go into the next step.

4) If scale calibration is working properly, scales will go to coin number counting mode after auto-initialization.

5) If scale is not calibrated properly, the screen will display "CAL.Er" and go back to step 1) for re-calibration.

2.2.6 Inner code checking mode:

2.2.6.1 Entering method: Under scale working mode, long press **ON/OFF/CLEAR** and **ADD/ ENTER** at the same time until "code" sign displays. The sign means that scales already enter into inner code checking mode and display A/D data.

2.2.6.2 **ON/OFF/CLEAR**：Exit the mode, re-initialize and go to counting mode.

2.2.6.3 **TARE:** Display filtered and non-filtered A/D data in switch. There is "Total" indicator under filtered A/D data.

2.2.6.4 MODE/CAL: Display weighing data and inputting voltage in switch. Working voltage is displayed by the sign "U×.××". It is better if the voltage is between 4.6V～8.6V.

. Attention items：

1．Make sure the battery is inserted correctly.

2．It is better if scales are warmed up beforehand. Please remove the object to be weighted as soon as weighing performance finishes.

3．It cannot be used in places where the temperature, humidity and wind speed changes fiercely

4．Please use the scale far away from the instrument with electron magnetic interface, for example, mobile phone.

5．Please take and put object gently in the process of weighing.