Smartbox Count
Short Description

1.General

The SMARTBOX-Count program provides various ways to determine numbers of pieces, to determine proportional differences between weighing goods and to do checkweighings with +/-tolerances.
Article numbers, product names, reference weights, tare weights etc. can be stored in a permanent memory and later be activated as required.

Furthermore the individual weighing samples can be totalled up, with the respective protocol-printout of the individual samples and the total.

2.Scope of delivery

Standard-configuration: Balance with smartbox count and printer or PC (CH1)
Optional: Barcode-scanner (CH2), barcode-printer, signallamp (BUS), secondary display (BUS) etc.

3.Standard applications

3.1 Smartbox Count: Piece-counting

By means of the application „piece-counting“ items of uniform weight (screws, bearings, coins etc.) can be easily counted.

For this, first the reference piece weight of the item must be determined/defined and, so far as one works with several articles, assigned to the respective article.

Determination/Definition of the reference piece weight can be carried out in several ways:
- Taking over a measuring-value from the balance by push-button
- Taking over a measuring-value from a connected reference-balance by push-button
- Entering the reference weight via the keyboard
- Reading in a specific reference weight code via the barcode-scanner

During the following piece-counting procedure the weighing value of the balance will be converted into pieces (PCS) and showed on the balance display.

3.1.1 Example of a printout with article and number of pieces

```
Date 05.11.2004  Time 08:52:31     -> date and time is on series 320 XB optional

Art.No.    5487
Prod.      M5x10

Lot-No.    12-743
Operator   M.N.

Net           +     3952 PCS

Ref.W.        +    2.551 g/PCS
Net 1         +  10081.5 g
Gross         +  10303.9 g
Tare          +    222.4 g
```

3.2 Smartbox Count: Percentage-weighing

By means of the application „percentage-weighing“ the weight of different measurements as a percentage of a previously defined reference weight can be displayed and printed out.

For this, first the reference weight of the item must be determined/defined and, so far as one works with several articles, assigned to the respective article.

Determination/Definition of the reference weight can be carried out in two ways:
- Taking over a measuring-value from the balance by push-button
- Entering the reference weight via the keyboard

During the following percentage-weighing procedure the weighing value of the balance will be converted into a percent value and showed on the balance display.

3.2.1 Example of a printout with article and percentage

```
Date 05.11.2004  Time 09:14:12     -> date and time is on series 320 XB optional

Art.No.   4382
Prod.     AT345 ULTRA

Lot-No.   08-647
Operator  H.W.

Net          +  100.024 %

Ref.W.       +   2056.8 g/100%
Net 1        +   2057.3 g
Gross        +   2348.3 g
Tare         +    291.0 g
```

3.3 Smartbox Count: Plus-Minus-weighing

By means of the application „plus-minus-weighing“ each measurement can be checked for its agreement with a defined reference-value plus-minus allowable deviations.

For this, first the nominal weight and the allowable deviations of the item must be determined/defined and, so far as one works with several articles, assigned to the respective article.

During the following plus-minus-weighing procedure in addition to the weighing value of the balance the symbols „-“, „->II<-“ resp. „+“ will be showed on the balance display.

3.3.1 Examples of a printout with article and plus-minus deviations

```
Date 05.11.2004  Time 10:36:26     -> date and time is on series 320 XB optional

Art.No.   7610800019138
Prod.     Emmentaler mild

Operator  G.H.

Net          +    198.7 g

Nom.Value    +    200.0 g
TU           +    198.0 g
TO           +    202.0 g
Tare Art.    +      3.8 g




Date 05.11.2004  Time 10:48:05

Art.Nr.   87124
Prod.     M3x15

Lot-No.   145
Operator  G.H.

Net          +     1000 PCS

Ref.W.       +    2.747 g/PCS
Nom.Value    +     1000 PCS
TU           +      995 PCS
TO           +     1005 PCS
Tare Art.    +     17.5 g
```

3.4 Smartbox Count: Add Up

By means of the application „Add Up“ several samples can be easily totalled up. The individual samples can be automatically or manually captured and printed out and subsequently the total of it can be printed out.

3.4.1 Example of a printout with article and add up

```
Date 05.11.2004  Time 11:45:34     -> date and time is on series 320 XB optional

Sample   1
Art.No.  25478
Prod.    SALT 1KG

            +    994.8 g
Diff.       -      5.2 g

Nom.Value   +   1000.0 g
TU          +    985.0 g
TO          +   1015.0 g


...
...
...


Begin Date 05.11.2004  Time 11:45:34

Number of Samples  10

Total Net     +   9952.3 g
Total Diff.   -     47.7 g

Total Nom.V   +  10000.0 g

End   Date 05.11.2004  Time 12:03:15
```

4.Technical data

Dimensions: Width x Length x Height: 125 x 150 x 33 mm (Series 320 XB, XT, XR)
Weight: 265 g (Series 320 XB, XT, XR)
Language options: German, English, French (can be set on balance side)

Maximum memory space:
1000 articles
250 tare-registers

The elements of the article:
max. 20 characters for the identification of the article (ART.NO.)
max. 3 characters for the short identification of the article (SHORT CODE)
max. 20 characters for the description of the article (PROD.)
max. 20 characters for the identification of the lot number (LOT.NO.)
max. 20 characters for the identification of the user (NAME)
a real number for the nominal value (NOM.VALUE)
a real number for the reference piece weight [g/PCS] (REF.W.)
a real number for the reference percentage weight [g/100%] (REF.W.)
a real number for the under tolerance limit (TU)
a real number for the over tolerance limit (TO)
a real number for the tare value (TARE)

Interfaces:
Standard: 2 x RS232 (CH1, CH2)
Optional: 4 x RS232 (additional accessory RS232-Interfacebox)
The smartbox supports up to 6 interfaces

Print formats:
15 free definable text-lines
85 pre-defined text-lines (measured values, results etc.)

Remote control:
The smartbox can be controlled through the RS232 interface

Software-Update:
Software-updates can be downloaded from the Precisa-homepage