Efficient automation.

Checkweighing and classification on a moving belt. For industrial conveyor systems in Goods-in, Production and Dispatch

☐ Robust, industrial housing provides IP68/IPX 9K protection

☐ BIG WEIGHT® display with large digits easily read from a distance

☐ Smooth, spill-proof membrane keypad for long life and ease of operation

☐ Code A to D for clear identification of weighing data

☐ Interfaces facilitate connection of peripheral systems

☐ Up to 3 scales may be connected – for the always correct weighing accuracy

☐ Unmistakable vouchers – unmistakable and clear, also with barcode

☐ Quick data entry via barcode reader, external Alpha keyboard or main data processor

CONTROL

A	Ident A
B	Ident B
C	Ident C
D	Ident D

Confidence through checking

Correctly checked incoming and outgoing quantities protect your company's reputation. And accurate classification optimises your production. You need absolutely reliable weighing data for both applications. METTLER TOLEDO scales will provide this consistency irrespective of the quantity involved. The tailormade range extends from industrial precision balances, with an internal resolution of 3.2 million points, to competitively priced strain gauge/analog weighing platforms, with capacities from milligrams to tonnes. You can also use ID7-Control²⁰⁰⁰ software in conjunction with the ID7 terminal to optimize your production flow.

Checkweighing and classification
with ID7-Control ensures consistently transparent and cost-effective production and dispatch procedures.

BIG WEIGHT® is a registered trademark of Mettler-Toledo (Albstadt, Germany) GmbH.

Technical data for ID7-Control²⁰⁰⁰

Applications ID7-Control²⁰⁰⁰

Monitoring	Hit the target every time with the appropriate application.
Classifying	
Weighing	
Target integrating	

Operating Modes ID7-Control²⁰⁰⁰

Fully automatic	Whatever your choice, whether fully automatic with conveyor, with manual product loading or remotely controlled from your superior data processing system. The ID7-Control²⁰⁰⁰ plays along every time.
Semi-automatic	
Remote	

Monitoring

Check your weighing goods by target value with freely selected tolerance
Input of target value and tolerance is done in actual weight units. Tolerances do not have to be symmetrical.

Evaluation in three classes
Depending on weight reading, display may show:
– WEIGHT TOO SMALL
– WITHIN TOLERANCE
– WEIGHT TOO HIGH
These weight classes may also be passed on to signal outputs to be used (for example) for automatic sorting out of rejected items.
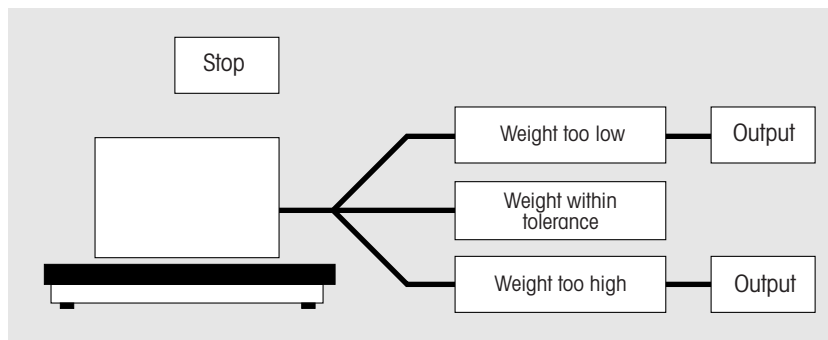
Target value storage
Power failure-protected and easy to call up target value memory for 999 frequently used weighing objects.

Statistical functions
Clear statistical information related to production process with:
– Mean value X
– Mean value OK X
– Standard deviation S
– Standard deviation OK S
– Minimal value X_MIN
– Maximal value X_MAX
– Share of each class in %

Function Key "Classifying"

LIMIT	Enter target values and weighing parameters
SUM	Display and print sum
PIECE	Set piece counter

Classifying

Classifying of weighing goods in up to eight freely defined weight classes.
Input of target value and tolerances are done in the actual weight unit. Tolerances do not have to be symmetrical.

Evaluation in eight classes
Depending on determined weight value indication may be:
– SMALLER LIMIT 1
– CLASS 2 … CLASS 7
– GREATER LIMIT 7
The weight classes may also be passed on to signal outputs and be, for example, used for automatic sorting.
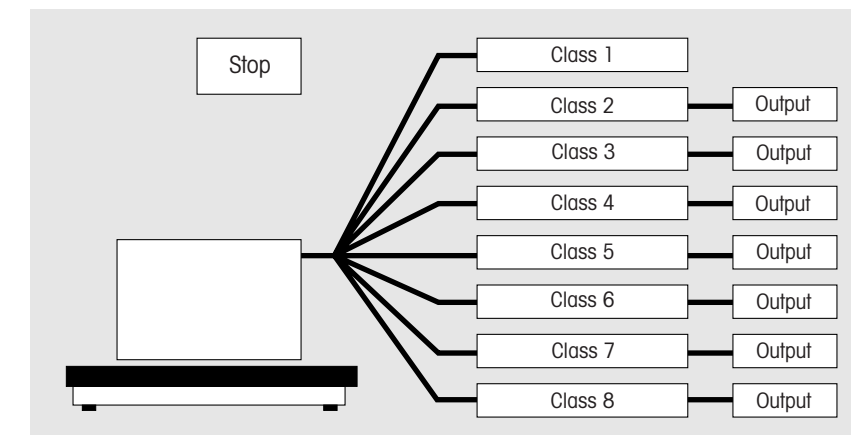
Target value memory
Power-failsafe and easy to call up target value memory for 249 frequently used weighing goods.

Statistical Functions
Clear statistical information regarding production with:
– Mean value X
– Standard deviation S
– Minimal value X_MIN
– Maximal value X_MAX
– Shares of each by classes in %

Function Key "Classifying"

| LIMIT | Enter target values and weighing parameters |
| SUM | Display and print sum |
| PIECE | Set piece counter |

David F. Atkinson
Food & Vegetables

```
Date                    28.05.98
Time                    04.14.35

Sample No.:
       Cornflakes 455.32

NET                     2.495 kg
n                            1

NET                     2.505 kg
n                            2

NET                     2.507 kg
n                            3

NET                     2.527 kg
n                            4

NET                     2.512 kg
n                            5

NET                     2.492 kg
n                            6

NET                     2.490 kg
n                           60

NET                     2.490 kg
n                           61

NET                     2.490 kg
n                           62

# ALL
                      155.554 kg

# GOOD                 55.002 kg
#TOO LARGE             60.702 kg
#TOO SMALL             39.850 kg

n ALL                        62
n ALL                 100.0 %
n GOOD                       22
n GOOD                 35.5 %
nTOO LARGE                   24
nTOO LARGE             38.7 %
nTOO SMALL                   16
nTOO SMALL             25.8 %

X_GOOD                  2.500 kg
X_ALL                   2.508 kg
S_GOOD                  0.0033 kg
S_ALL                   0.0290 kg
MAX                     2.627 kg
MIN                     2.490 kg

Date                    28.05.98
Time                    04.18.47
```

Typical printout shown actual size.

Beck Electronics Ltd
Great Yarmouth,Norf.

Line No. 5

Article No.
              5656456.45TR

```
Date                    28.05.98
Time                    05.29.19

Limit  1                0.985 kg
Limit  2                0.990 kg
                        0.995 kg
                        1.000 kg
                        1.005 kg
NET                     1.010 kg
n

NET                     1.000 kg
n                            4

NET                     0.995 kg
n                            5

NET                     1.001 kg
n                            6

NET
n

NET                     0.995 kg
n                           28

NET                     1.000 kg
n                           29

XNet                   28.962 kg

# C1                    1.967 kg
# C2                    0.989 kg
# C3                    1.985 kg
# C4                    3.987 kg
# C5                   18.014 kg
# C7                    2.020 kg

n                           29

n C1                         2
n C1                   6.9 %
n C2                         1
n C2                   3.4 %
n C3                         2
n C3                   6.9 %
n C4                         4
n C4                  13.8 %
n C5                        18
n C5                  62.1 %
n C7                         2
n C7                   6.9 %

Date                    28.05.98
Time                    05.31.08
```


Stop	Weight too low	Output
	Weight within tolerance	
	Weight too high	Output

Stop	Class 1	
	Class 2	Output
	Class 3	Output
	Class 4	Output
	Class 5	Output
	Class 6	Output
	Class 7	Output
	Class 8	Output

Weighing

**Fully or semiautomatic counting including printout of calibratable weighing results and data transfer
to external data processing station**
– With fully automatic weighing, transfer of weighing goods is accomplished by linked conveyor system.
– As soon as load is brought to scale, the weighing cycle begins. When scale comes to rest, the weight value is printed out automatically
   and is sent via the interface.
– The weighing cycle is terminated, when the scale recognizes complete unloading. This prevents double weighing.
– If during transfer of weighing goods no steady weight value is obtained, the conveyor system stops until a trustworthy weight value is
   recognized. That feature prevents un-weighed goods to pass by the scale.

Output
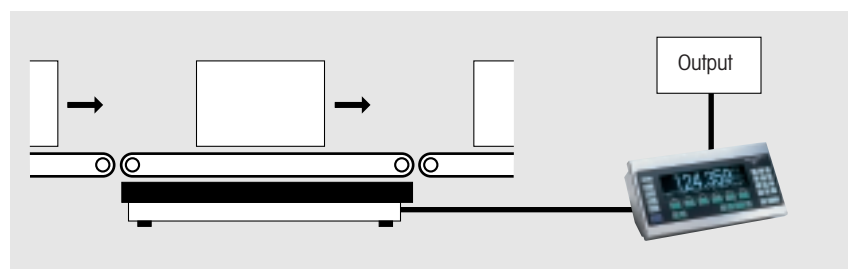
– In case of semi-automatic weighing, loading and unloading of the scale is done manually, i.e. via a tubular rail conveyor . To secure
   proper quantity supply and removal, the transfer points may be equipped with lock flaps, interlocked with the ID7-Control²⁰⁰⁰.
   Weighing goods cannot pass the scale without being weighed and registered. The weight printout method may be selected as going
   either via the ID7 key pad, an interface command or an external taster. Again here, the weighing process as well as the flap control
   are guided by the three points "loading", "steady weight readout including recognition" and "unloading".

Output
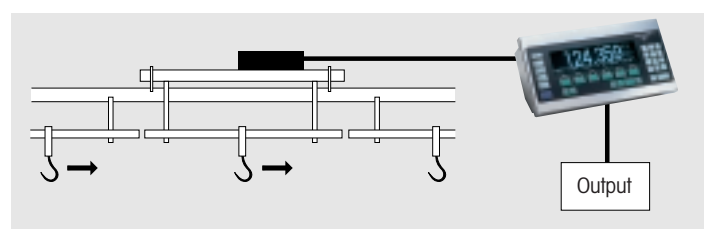
Choice in summation of weighing results
If AUTO SUM is activated, each printed weight value is added to a sum. This sum may be called up and printed out.

Selecting transfer counter
Each weighed part is counted with a piece-counter. By input of beginning and end value, the desired number of weighing events may be
pre-determined. When that number is reached, the weighing process is halted. The display shows a respective message.

Function Key Weighing

LIMIT	Loading, limit and standstill time for weight recognition (only applicable with FULLY AUTOMATIC process)
SUM	Indicate and print out sum
PIECE	Set item counter
CANCEL	Cancel weight currently bearing on scale
MANUAL	Enter weight value manually (only applicable with SEMI-AUTOMATIC process)
PLUS	Add weight to sum (only applicable with SEMI-AUTOMATIC process)

Target summation

Adding piece goods up to a pre-determined target weight, including piece counting
Input of target weight and tolerances are done in the actual weight unit. Tolerances do not have to be symmetrical.

Fully automatic or manual weighing
– You may select to have the display either show a DeltaTrac or the Delta in addition to the target sum in clear text.
– Upon attaining the target sum, the system stops automatically and the display shows a respective message.
– In case target sum is exceeded, system stops automatically with respective display message.
   In order to complete the weighing order, the weight of goods on the scale may be corrected manually or process may be ended by command CLOSE.
– In case of product shortage, order termination may again be forced by pressing button CLOSE.
– When reaching the selectable warning threshold, a respective output is set.
   Factory setting is: 90% of target sum.
Reaching conditions such as "Warn-Threshold Reached" and "Target Sum Reached" may also be passed on to digital outputs.

Target value memory
Power-failure proof and easy to call up target value memory for up to 999 frequently used weighing goods.

Printout
Easy to read information regarding production process including:
– With or without individual weights
– Average piece weight
– Number of weighed pieces
– Message "forced" for forced termination of an order

Function Buttons "Target Summation"

LIMIT	Enter target values and weighing parameters
SUM	Indicate and print out sum
START	Begin weighing order processing
STOP	Halt weighing order processing
CLOSE	Force order processing termination

Integrated weighing
and automatic conveying.

**METTLER TOLEDO scales or load
cells incorporated into your
conveyor systems accurately
determine the data and param-
eters required by the user-friendly
ID7-Control²⁰⁰⁰ software package.
Checkweighing, classification,
fully and semi-automatic
operation are considerably
enhanced.**

CONTROL

285.41 kg

WITHIN TOLERANCE

A Ident A

B Ident B

C Ident C

D Ident D

NET

LIMIT   TOTAL   PIECES

UNDER   CORRECT   OVER

124.359 kg

METTLER TOLEDO