



IND690control

Application software

For a clear advantage in checkweighing, classification, full and semi-automatic operation.

METTLER TOLEDO scales or load cells incorporated into your conveyor systems accurately and reliably determine the data and parameters needed by the user-friendly IND690control software package to provide enhanced performance control.

**Integrated weighing and
automatic conveying.**

METTLER TOLEDO

Efficient automation.

**Checkweighing and classification on a moving belt.
For industrial conveyor systems in goods-in, production and dispatch.**

Ident A

Ident B

Ident C

Ident D

Ident E

Ident F

- Rugged, industrial housing with IP69K protection
- BIG WEIGHT® display with large digits easy to read even from a distance
- Smooth, spill-resistant membrane keypad for long life and ease of operation
- Code A to F for clear identification of weighing data
- Interfaces allow easy connection of external systems
- Up to 4 scales may be connected—for correct weighing accuracy every time
- Unmistakable vouchers—unmistakable and clear, also with barcode
- Fast data entry via barcode reader, external alphanumeric keyboard or central computer

Confidence through checking.

Correctly checked incoming and outgoing quantities protect your company's reputation. And accurate classification optimises your production. Reliable weighing data for both applications. METTLER TOLEDO's scales will give you is needed for consistency, whatever the accuracy and quantity involved.



The tailor-made selection extends from industrial precision balances, with an internal resolution of 3.2 million points, to competitively priced strain gauge/analogue weighing platforms, with measuring ranges from milligrammes to tonnes. You can also use the IND690control software in conjunction with the IND690 terminal to optimise your production flow.

Checkweighing and classification with IND690control ensures consistently transparent and cost-effective production and dispatch procedures.



IND690control applications

Checkweighing Hit the target every time with the appropriate application.

Classifying

Weighing

Target totalisation

IND690control operating modes

Fully automatic Whatever operating mode you choose, whether fully automatic with conveyor, with Semi-automatic manual product loading or remotely controlled from your central computer system. The Remote IND690control is ready for anything.



Checkweighing

Check your weighing samples by target value with freely selectable tolerance

Target value and tolerances are entered in the current weight unit. 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 directed to signal outputs, to be used (for example) for automatically sorting out rejected items.

Target value storage

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

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 %

Checkweighing function key

LIMIT	Enter target values and weighing parameters
TOTAL	Display and print total
ITEM	Set item counter

Classifying

Classifying of weighing samples in up to eight freely definable weight classes

Target values and tolerances are entered in the current 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 through CLASS 7
- GREATER LIMIT 7

The weight classes may also be directed to signal outputs, to be used (for example) for automatic sorting.

Target value memory

Power failure-proof and easy-to-call-up target value memory for 249 frequently used weighing samples.

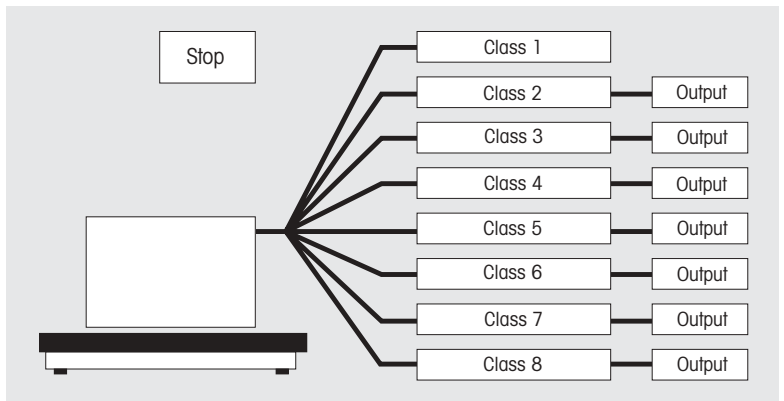
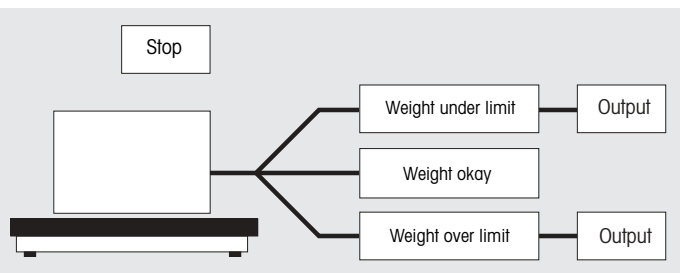
Statistical functions

Clear statistical information regarding production with:

- Mean value X
- Standard deviation S
- Minimal value X_MIN
- Maximal value X_MAX
- Share of each class in %

Classifying function key

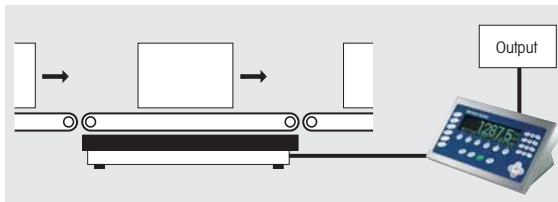
LIMIT	Enter target values and weighing parameters
TOTAL	Display and print total
ITEM	Set item counter



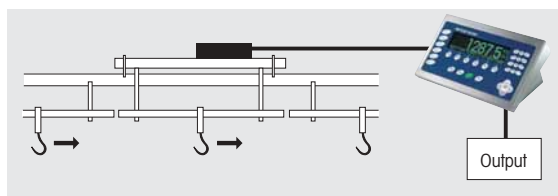
Weighing

Fully or semi-automatic counting, including printout of calibratable weighing results and data transfer to external data processing station

- With fully automatic weighing, goods are transferred by a linked conveyor system.
- The weighing cycle begins as soon as the load is placed on the scale. When the scale comes to rest, the weight value is automatically printed out and sent via the interface.
- The weighing cycle is terminated when the scale recognises complete unloading. This prevents double weighing.
- If no steady weight value is obtained during transfer of weighing goods, the conveyor system stops until a trustworthy weight value is recognised. This feature prevents unweighed goods from passing by the scale.



- In the case of semi-automatic weighing, the scale is loaded and unloaded manually, i.e. via a tubular rail conveyor. To ensure proper quantity supply and removal, the transfer points may be equipped with lock flaps connected to the IND690control. Weighing samples cannot pass the scale without being weighed and registered. The weight can be printed out through the IND690 keypad, an interface command or external keyboard. The weighing process and the flap control are guided by loading, steady weight readout including recognition and unloading.



Choice in totalisation 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 an item counter. The desired number of weighing events may be preset by entering the start and end value.

Function key weighing

LIMIT	Loading, limit and standstill time for weight recognition (only applicable with FULLY AUTOMATIC process)
TOTAL	Indicate and print out total
ITEM	Set item counter
CANCEL	Cancel weight currently on the weighing platform
MANUAL	Enter weight value manually (only applicable with SEMI-AUTOMATIC process)
PLUS	Add weight to total (only applicable with SEMI-AUTOMATIC process)

Target totalisation

Adding piece goods up to a pre-determined target weight, including piece counting

Target weight and tolerances are entered in the current weight unit. Tolerances do not have to be symmetrical.

Fully automatic or manual weighing

- The display can show either a DeltaTrac or the Delta in addition to the target sum in text.
 - When the target sum is reached, the system stops automatically and the display shows a corresponding message.
 - If the target sum is exceeded, the system stops automatically and displays a corresponding message. In order to complete the weighing order, the weight of goods on the scale may be corrected manually or the process may be ended by using the CLOSE command.
 - In case of product shortage, order termination may again be forced by pressing button CLOSE.
 - If the selectable warning threshold is reached, a corresponding output is set. Factory setting: 90% of target sum.
- Conditions such as the warning threshold reached and the target sum reached, may also be directed to digital outputs.

Target value memory

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

Printout

Easy-to-read information about the production process, including:

- With or without individual weights
- Average item weight
- Number of weighed items
- Forced termination of an order

Target totalisation function buttons

LIMIT	Enter target values and weighing parameters
TOTAL	Indicate and print out total
START	Start weighing job
STOP	Stop weighing job
CLOSE	Force termination of job

ServiceXXL[®]
Tailored Services

www.mt.com