

IND690count

Application software

This user-friendly software package enhances the capabilities of the IND690 industrial terminal to include piece counting.

It provides reliable system data quickly for easy invoicing and accurate inventory control.



**Systematic counting
to fit the bill exactly.**

METTLER TOLEDO

Consistently accurate counting.

Efficient piece counting in goods-in, production, stores and dispatch

Article No.

Job No.

Code No.

Document No.

Ident E

Ident F

- Rugged, industrial housing provides IP69K protection
- BIG WEIGHT® display with large digits easily read from a distance
- Smooth, spill-resistant membrane keypad for long life and ease of operation
- Codes A to F for clear identification of the parts being counted
- Interfaces allow easy connection of external systems

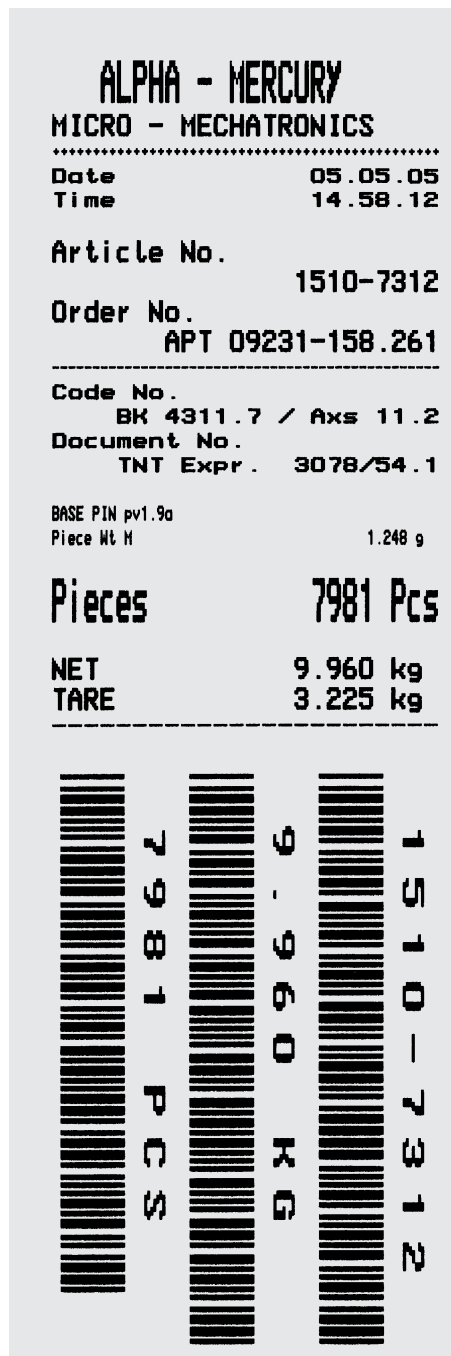
Cost-effective and safe operation with the IND690count

Whether counting manually or automatically, the IND690 and its IND690count software always provides the correct data.

METTLER TOLEDO weighing solutions, which can be easily integrated into every counting application, optimise clear production and logistical processes. They provide transparent, accurate data, which can be linked to higher-level EDP systems for commercial benefits.



BIG WEIGHT® is a registered trademark of Mettler-Toledo (Albstadt) GmbH. German Patent 197 32 659. European Patent 0 895 071.



Typical printout shown actual size 1:1





Piece counting in **goods-in** prevents production delays due to missing items. Accurate quantities in **dispatch** guarantee satisfied customers.

Correct counting in every weight class

Whether dealing with small, light pieces or large, heavy pieces in various quantities, reliable and accurate piece counting is required. METTLER TOLEDO scales are suitable for any pieces, any level of accuracy and any quantities. The IND690count offers numerous functions, including monitoring the minimum reference weight using automatic reference optimisation and compiles statistics for your operations.



METTLER TOLEDO piece counting systems monitor **production** and record the results on a printer or the computer system.

Up to 4 different scales can be connected

Regardless of which type of scale you wish to use, the versatile IND690 data interfaces enable up to 4 different scales from the laboratory and industrial range to be connected.

Fast data input without errors

Data can be quickly and safely recorded using a bar code reader, an external alpha keyboard or online from a computer.

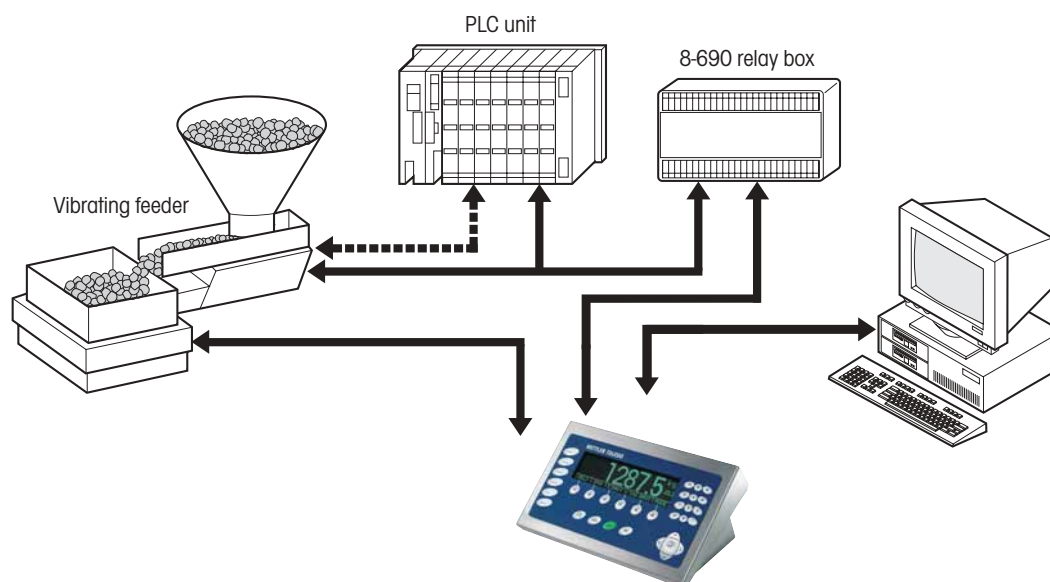
Totalisation

Using the totalisation function of the IND690count, weight values and quantities from several containers can be totalled using the item counter.



Continuously updated stock figures in the **stores** minimize space requirements and provide a reliable indication of the minimum quantities needed for fast response.

Typical automatic piece dispensing system



Function keys

REF	Start of count with standard reference quantity with only 1 key
REF N	Start of count with variable reference quantity
REF G	Start of count with input of piece weight
PLUS	Totalisation
TOTAL	Display total
	Toggles between actual quantity and total to allow simple distribution of quantity counted amongst several containers

General functions

Info function	Easy retrieval of mean piece weight, current reference quantity, standard reference quantity, contents of the fixed value memories, net total, total piece count, item counter, dispensing parameters
Control signals	Via 4-I/O-690 and 4-690 relay box or RS485/422-690 and 8-690 relay box (accessories), as long as piece filling is not activated: <ul style="list-style-type: none"> • Signal outputs: DeltaTrac status (too few/OK/too many), scale stability • Signal outputs: ON/OFF key, zeroing, taring, Enter • 8 independent, freely definable switching points (not applicable for piece filling applications)

Neutral measurement

Application	For easily determining weight-dependent quantities such as lengths, surface areas and volumes
Format	Result can be displayed to 0–3 places after the decimal point
Unit	Result can be printed out with any 10-character text

Piece counting

Piece count calculation	Continuous calculation from item weight and current net weight
Piece count display	BIG WEIGHT® display with 18mm high digits, 7 places with indication of the units
Start count	<ul style="list-style-type: none"> • By pressing single key with standard reference quantity • By entering the variable reference quantity (1 to 9999 pieces) • By entering the known item weight in various units on the keypad, from fixed value memory or via interface (e.g. PC, barcode reader)
Fixed value memories for piece weights	999 fixed value memories for frequently used items, each with piece weight and 20-character item name, buffered in case of power failure and quickly retrieved

Counting accuracy

Minimum reference	Minimum reference weight can be selected for each scale depending on models connected
ADD function	Automatic calculation and displaying of the quantity needed to reach the minimum reference weight. Can be switched off
Warning	Indication of quantity if counting has been started below the minimum reference weight
Reference optimisation	Automatic function for improving counting accuracy
Statistics function	Mode for automatically calculating mean and standard deviation of individual items counted
Multi-scale systems (accessories)	Up to 4 scales can be connected. You will achieve extremely accurate counting cost-effectively with the ideal reference scale from the entire METTLER TOLEDO

Piece filling

Dispensing function	Automatic filling with target quantity of items counted based on weight, with coarse and fine feed for maximum accuracy
Filling type	Weighing in or out
Filling parameters	Option of input on keypad by user in response to prompts, retrieval from one of the 25 fixed value memories or via interface
Learn mode	Automatic determination of the parameters for coarse and fine feed
Tare function	Automatic taring at the start of dispensing. Can also be switched off
Target value memories	25 fixed value memories for items that have to be dispensed often. Each memory contains piece weight, item name, target quantity, limits 1 & 2, +/- tolerance
Dispensing and display	Continuous display of target piece weight and fill status (coarse/fine stream)
Tolerance checking	Comparison of target with current, with +/- tolerance. Manual or automatic, pulsed redispensing
Refill correction	For optimising filling accuracy, with variable correction factor
Control signals	Via RS485/422-690 and 8-690 relay box (accessories) <ul style="list-style-type: none"> • Signal outputs: control of the feed devices (coarse/fine), tolerance checking output (too few/OK/too many), general outputs (on/off, enabled, end of dispensing) • Signal inputs: start/stop/acknowledge for dispensing and taring

Totalisation functions

In weighing mode	Gross, net and tare total
When counting items	Gross, net, tare and total quantity
When dispensing items	Automatic totaling of gross, net, tare and quantity
Total memory	7-place weights, 8-place quantity
Item counter	Up to 9999, any start and end value can be chosen
Total handling	Cleared automatically at the start of counting. Can be switched off