Compact Weighing Systems



Increase Your Performance

Wherever It Counts



Versatile – Durable Designed for Your Environment

Are you looking for a new compact scale that is designed for your industrial environment? If so, the new ICS425 – ICS435 – ICS445 – ICS465 Industrial Compact Scales are the right choice for you: choose from a wide range of construction types, accessories, applications, capacities and the suitable weighing performance.

Versatile

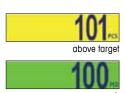
- For best ergonomic position choose the design of your scale: compact, column, table model
- Easy scale set-up due to the digital interface between platform and terminal – simply plug and weigh
- Up to 15 hours mobile operation with a rechargeable, removable battery

Durable

Prolonged usage in industrial environments through:

- Extremely rugged die-cast aluminum housing
- Overload protection
- Robust foil keypad
- Dust-proof, IP65 protected terminal

colorWeight®



below target

Applications and Designs



Model with accessory column

Basic Weighing ICS425/435

- ICS425 simple weighing from 0.6 kg up to 600 kg
- ICS435 simple weighing with numeric keypad for easy pre-taring



Compact model

Basic Counting ICS445

- Easy to operate counting scale
- Second scale option
- User prompting
- Configurable softkeys for fast access to key applications



Table model (detachable terminal)

Advanced Counting ICS465

- Superior piece counting, totalizing and checkweighing scale
- colorWeight[®] display
- Scale embedded database
- Second scale option

Highly Precise Results with the Right Weighing Performance

Increase your productivity by minimizing overfilling, avoiding underfilling and detecting incorrect or missing parts. ICS4_5 compact scales feature high performance weighing technology delivering accurate results fast.

> ICS425 compact scale 0.6 kg capacity with 0.001 g readability

Weighing technology at its best

- Approved resolution up to 61 000e OIML
- Non-approved resolution up to 610 000d
- Capacities from 0.6 kg x 0.001 g up to 600 kg x 20 g
- Easy scale leveling: Three feet levelling system
- Fully Automatic Calibration Technology (FACT) function calibrates the MonoBloc[®] scale according to temperature changes and increases accuracy of weighing results

Achieve high precision piece counting with

- Professional consulting by a METTLER TOLEDO counting specialist
- Suitable counting scale solution with the right accuracy and capacity
- Second scale which extends the capacity range or is used as a sample scale resulting in more accurate parts counting
- Average Piece Weight (APW) optimization automatically adjusts the APW during a counting task. This leads to an improved accuracy and less errors due to hand counted sample pieces
- Tolerance limits for APW prohibit errors from hand counted sample pieces. Limits can be saved as relative, absolute values or in percent.

Maintain accurate results with

- Concise and regulatory compliant calibration services, including (digital) calibration certificates
- Minimum weight (MinWeigh[®]) determination according to your tolerance limits and specific environment. Knowing the MinWeigh[®] of your scale helps you to stay within your own or the industry tolerance limits.



Intuitive – Ergonomic – Fast Designed for Easy Operation

Weighing, counting or checkweighing are labor-intensive applications. Having various people involved in a process often leads to mistakes which cost you time and money. The new ICS425 – ICS435 – ICS445 – ICS465 Industrial Compact Scales are designed to facilitate your operator's tasks, avoid errors and increase your productivity.

Language	Fran Itali Espi Offici	cais ino ignol				
Am	T	1	T	K/	1	-

Increased counting speed

Speed-up your weighing tasks and increase your productivity with:

- Configurable, easy to read graphical display
- Numeric keypad for fast input of tare or sample weights
- Configurable softkeys for fast access to key functions such as sampling for counting
- Intuitive menus
- Selectable languages: English, German, Spanish, French, Italian, Chinese
- Easy database entry or recall with barcode/RFID scanner or external keyboards

Reduce operator errors

Facilitate your operator's tasks through:

Prompt 4

- Instructions and information for the operator on the scales display (user prompting)
- Predefined checkweighing and counting procedures
- Hands-free modes, allows working efficiently without pressing any keys. This facilitates parts counting into a container and portioning out of a full container

Save time and money

250 PCS

with the smart colored display making the weighing application simple, fast and less error prone:

л

267 PCS

- colorWeight[®] display indicates if weight or count is below, in or above target and clearly shows error messages
- Colors can be selected and assigned to statuses
- Freely configurable tolerance limits (relative, absolute or in percent)
- Bar graph directly shows filling status





Flexible – Integrated – Simple Effective Piece Counting

The ICS445 and ICS465 counting scales provide various connectivity options, making the counting process more flexible and integrated. A broad device assortment can be connected to the scale simplifying the counting task. The portfolio is complemented with various interface options to existing IT systems and a scale embedded database with smart export/import functionality by USB memory stick.

Seamless integration

ICS4_5 scales offer seamless and reliable connectivity. In order to ease and speed-up the counting processes the scales can be connected with barcode/RFID scanners, external keyboards, light alarms, printers and computers. The scales offers an open structure and can be linked in various ways (e.g. via OPC server) to an existing ERP or Warehouse Management system to an existing external database.



Various interface options

The ICS445 and ICS465 terminals feature one RS232 as standard plus an additional data interface. Choose between the following options: RS232, RS422/485, USB device, USB host, Ethernet, WLAN, digital/analog 2nd scale, Digital I/O.

Printing and labeling solutions

Labels, strip printouts and documents can be flexibly created according to your needs. Various formats including pictures and layouts conforming to industry standards (e.g. Odette, AIAG, Galia,...) can be realized. All ICS4_5 scales can be easily connected to standard METTLER TOLEDO as well as to third party printers. Do you need to print the alibi memory¹ or transfer the data to a PC for documentation or an audit? No problem, this is a standard functionality within your ICS4_5 scales.



Smart database

ICS465 provides an internal article database for up to 100 data entries and alibi memory¹ which can be extended to a transaction database monitoring your weighing and counting results. Import and export of the article database memory is simple. Use a USB memory stick to export a standard .csv file in MS Excel or simply connect your scale to the PC. 1

Five Steps to Tailor Your Scale

I

Applications/Terminals





	Basic Weighing		Basic Counting	Advanced Counting	
	ICS425	ICS435	ICS445	ICS465	
Functions					
Key: Power/Clear/Unit switching	•	•	•	•	
Key: Zero/Tare	•	•	•	•	
Key: Info	•	•	•	•	
Key: Printing/Data transfer	•	•	•	•	
5 Configurable softkeys			•	•	
Numeric keypad		•		•	
Graphic LCD display with backlights	•	•	•	•	
colorWeight® function				•	
User prompting			•	•	
2 selectable display modes	•	•	•	•	
Alibi memory ¹			•	•	
Database (up to 100 articles)				•	
Printing	•	•	•	•	
Optional exchangeable battery	•	•	•	•	
Die-cast aluminium housing, IP65	•	•	•	•	
Date and time	•	•	•	•	
Languages: English, German, French, Italian, Spanish, Chinese	•	•	•	•	
Weighing Applications					
Straight weighing	•	•	•	•	
Average weighing	•	•	•	•	
Counting			•	•	
Totalizing				•	
Over/Under Checkweighing				•	
Number of attachable platforms	1	1	2	2	
Fully Automated Calibration Technology (FACT) for MonoBloc® scale	•	•	•	•	

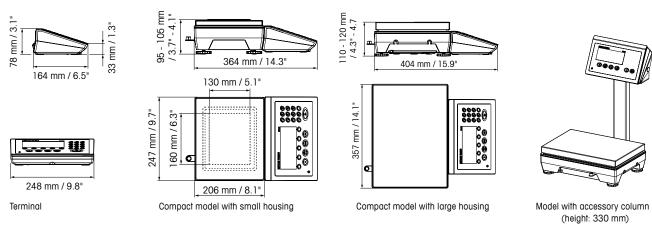
2

Interface Options/Accessories

Data Interfaces	Standard: 1 RS232 plus 1 optional interface selectable from: RS232, RS422/485, USB de- vice, USB host, Ethernet, WLAN, Digital I/O, digital/analog 2nd scale		
I/O Accessories	Relay box for digital I/O incl. power supply		
Printers	METTLER TOLEDO standard and various third party printers		
Mechanical Parts	Protective cover for terminals, wall bracket, roller tops,		
Stands	in many heights and versions		
Others	Barcode scanners and much more		

¹ Alibi memory is a memory of a Weights & Measures approved weighing system. It is a scale embedded database that stores weighing data. This feature allows you to see particular measurement details. The data, once stored in the alibi memory, cannot be tampered with. This protects you in case of customer claims or complaints and generates customer confidence by providing proof of accurate measurements and weight for correct billing.

3 Scale Design/Dimensions



Capacity/Resolution

4

For highest precision: MonoBloc® technology

ICS425k-/ICS435k-/ICS445k-/ICS465k-						
Model (Single Range)	0.6XS/f	3XS/f	6XS/f	6SM/f	15LA/f	35LA/f
Capacity [kg]	0.6	3	6	6	15	35
Standard readability [g]	0.001	0.01	0.01	0.1	0.1	0.1
Approved readability [g]	0.01	0.1	0.1	1	1	1
Model (Delta Range)	0.6XS / DR / f	3SX / DR / f	6XS / DR / f	6SM / DR / f	15LA / DR / f	35LA / DR / f
Capacity [kg]	0.12 / 0.6	0.6 / 3	1.2 / 6	1.2 / 6	3 / 15	7 / 35
Standard readability [g]	0.001 / 0.01	0.01 / 0.1	0.01 / 0.1	0.1 / 1	0.1 / 1	0.1 / 1
Repeatability (sd) [g]	0.001	0.01	0.01	0.1	0.1	0.1
Housing size	Small	Small	Small	Small	Large	Large
Platform size [mm]	160 x 130	160 x 130	160 x 130	240x200	350x240	350x240
Ingress Protection: Standard/Optional	IP54 / -	IP54 / -	IP54 / -	IP54 / IP65	IP54 / IP65	IP54 / IP65

For best performance: Strain gauge technology

ICS425d-/ICS435d-/ICS445d-/ICS465d-						
Model	3SM/f	6SM/f	15LA/f	35LA/f	PBD655	
Capacity [kg]	3	6	15	35	for higher	
Standard readability [g]	0.5	1	2	5	capacities from 6 - 600 kg, 1 x 6000e see brochure PBD655 Digital Weighing Platform	
Optional readability [g]	0.05	0.1	0.2	0.5		
Approved readability [g]	0.5	1	2	5		
Repeatability (sd) [g]	0.05	0.1	0.2	0.5		
Housing size	Small	Small	Large	Large	240 x 300 mm - 600 x 800 mm	
Platform size [mm]	240x200	240x200	350x240	350x240		
Ingress Protection: Standard/Optional	IP54 / IP65	IP54 / IP65	IP54 / IP65	IP54 / IP65	IP65 / -	

5 Service

Installation & Setup	ion & Setup Installation, setup, data loading, user training to ensure fast, initial start-up		
Qualification	Equipment qualification to meet your local or international quality system requirements		
Calibration	Calibration and certification to meet production or regulatory requirements		
Preventative Maintenance	On-going maintenance to ensure dependable operation and long equipment life		

METTLER TOLEDO Service

Lifetime Performance – with Precise Service

The right scale choice is the perfect start to meet your requirements. Realizing the results you expect also depends on precise installation, setup, calibration, training and maintenance. Product and service together, deliver performance and security.

Since we designed your scale for efficient service and tailor our services to your process and business needs, we help you to realize and sustain accurate, dependable and accountable weighing results, with the productivity you require.

Service	Benefits
Consulting	Correct equipment selection and application consulting Guidelines to ensure compliance with regulations (e.g. ISO16949)
Installation and Setup	 Proper installation for accurate, repeatable weighing results Functions configured to meet your needs Installation that meets local regulatory requirements Interfaces to other systems configured and tested for reliability
Equipment Qualification	Documents that performance meets requirements Procedures for periodic device testing in production
Calibration	 Concise and regulatory-compliant calibration certificates Application of industry and regulatory tolerance standards
Preventive Maintenance	Check critical components to identify and eliminate potential failure to increase longevity
	 Test operation for weighing and application performance to avoid unexpected expenditures

Our global service organization delivers:

Uptime	support and repair
Performance	maintenance and optimization
Compliance	quality assurance and certification
Expertise	training and consultation

www.mt.com

For more information

Mettler-Toledo AG CH-8606 Greifensee Switzerland Phone +41 44 944 22 11

Fax +41 44 944 30 60

Subject to technical changes © 05/2012 Mettler-Toledo AG Printed in Switzerland MarCom Industrial

MTSI 22023431