Compact Weighing Systems

Industrial Compact Systems
ICS685

Accurate and Reliable

Intuitive to Operate

Multifunctional

Easy to Integrate

Designed for Fast Production
Where Accurate Quantities Count

METTLER TOLEDO

Intuitive – Robust – Powerful
Designed for Fast Production

Speed counts in today's competitive environment. Manufacturers not only deliver error free, high-quality products, but also need to produce on time. With the new ICS685 Industrial Compact Scales you can achieve both. Benefit from an intuitive user menu, with easy-to-use weighing applications, an extremely robust design and wide range of construction types, capacities and the right weighing performance.

Intuitive
- Easy to read results through a large, bright full color TFT display
- Colored indication if weight or count is below, in or above target
- Fast input of article data or average piece weights with a large alpha-numeric keypad
- Fast access to key functions through configurable softkeys

Robust and flexible
High durability and flexibility with:
- Extremely rugged die-cast aluminum housing
- Robust foil keypad
- Dust-proof IP65 protected terminals
- Mobile operation with rechargeable battery pack (up to 15 hours continuous operation)

Powerful
Choose the right performance:
- Approved resolution up to 61 000e OIML
- Non-approved resolution up to 610 000d
- Fully Automated Calibration Technology (FACT)
- Capacities from 0.6 kg x 0.001 g up to 600 kg x 20 g

Applications

Smart Counting
- Straight-forward Average Piece Weight determination
- Up to 4 scales connectable
- Average Piece Weight optimization
- Advanced user prompting

Fast Totalizing/Accumulation
- Simple Totalizing or Totalizing to a target weight or count
- Undo and memory function tracking all weighings/counts, incl. statistics

Intuitive Checkweighing/Filling
- Smart manual checkweighing, filling and checkcounting
- colorWeight® colored display or bargraph
- Targets: absolute, in %, relative

Fast and Error Free Operation
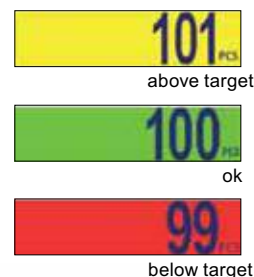## with Smart Counting Functionalities

Fast piece counting with:
- Intuitive user menu, straight-for ward Average Piece Weight (APW) determination at a key stroke
- Highly configurable color display
- Configurable softkeys for fast access to key functions
- Lockable hardkeys to avoid misuse
- Advanced user prompting, con figurable according to your pro cesses and guides operators fast and reliably through their daily counting tasks
- User Management: Different user profiles with allocated functions such as language, assigned soft keys, type of user prompting or locked hard keys

Accurate counting through:
- Reliable, high resolution load cells delivering repeatable results
- Connectivity of higher resolutions sampling scales or higher capac ity bulk scales (up to four scales)
- Comprehensive statistics on standard deviation, mean value of the APW, median, maximum, minimum values
- APW optimization automatically adjusts the APW during the counting process leading to an improved counting accuracy and less errors due to hand counted sample pieces

- Tolerance limits for APW deviation prohibits errors from hand counted sample pieces
- Easy scale leveling improving the counting result

Fast – Easy – Documented
with Integrated Data Handling

Weighing and counting thousands of parts or products means you have to handle numerous articles, identifications, names and matching average piece, sample or tare weights. Weighing results must be documented and labels to be printed according to your customers specifications or international standards. The ICS685 Compact Weighing System provides excellent functionality helping you to facilitate and speed up your daily tasks.

Fast data handling
through simple export/import of article or weighing data with Ethernet or USB memory stick, fast storage and recall of data and easy configuration of the scale on a PC.

Easy data analysis
with a configurable database featuring simple monitoring and analyzing of weighing data and a straightforward data export functionality in MS Excel.

Efficient documentation
due to various printing options, protecting you against customer complaints and ensuring compliance to ISO or traceability standards.

Flawless connectivity
- to external devices such as printers or barcode/RFID scanners
- to control third party devices such as alarm lights
- to integrate scales in external IT systems in various ways
- with two standard RS232 interfaces, plus two interface options (e.g. USB device/host, Ethernet, WLAN, 2nd scale, Digital I/O)

Powerful database
- Scale embedded or central (host) article database (up to 30'000 articles)
- Alibi/Transaction memory for all weighing and counting results
- Calibration log file storing all your calibration data
- Import / Export of data with USB memory stick or directly via Ethernet

Smart printing
- Predefined printing templates
- User-definable templates
- Different formats can be realized (labels, strips, forms, pictures, barcodes, …)
- Labels can be configured to conform to Industry standards such as AIAG, Odette or Galia
- Broad range of METTLER TOLEDO standard and third party printers

More Safety – Less Errors
Efficiently Manage Your Scales

User management

A scale is operated by many users, each having individual require ments. They use different weighing applications, speak various lan guages and have different skills. The user management function allows individual profiles to be created:

• Besides name and password, access rights for supervisors, operators or technicians can be given, defining what functions a user will see, change and operate
• Selectable languages
• All softkeys are configurable ac cording to the working process of a user
• Hardkeys can be deactivated to prevent incorrect key pressing and increase the accuracy of the results as less errors occur
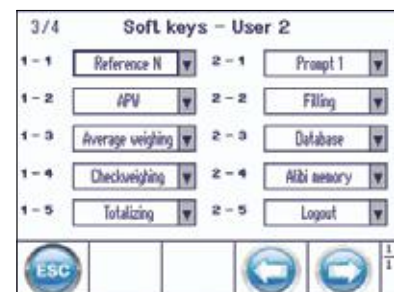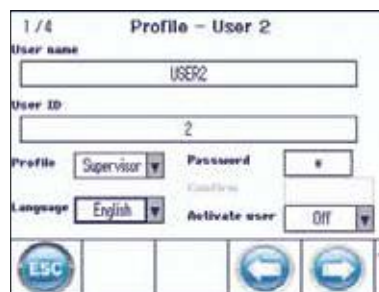
Configuration software

Comfortably configure your scale on your computer. Organize database entries, user profiles and rights, display modes, user prompt ing and so on. Furthermore profit from:

• Data backup and restore in creasing your security
• Configure the settings once and transfer it to as many scales as you wish

Database software

Use the database software to easily manage either one central host or different scale embedded data bases. Conveniently monitor data from the article database, alibi and transaction memory. Benefit from:
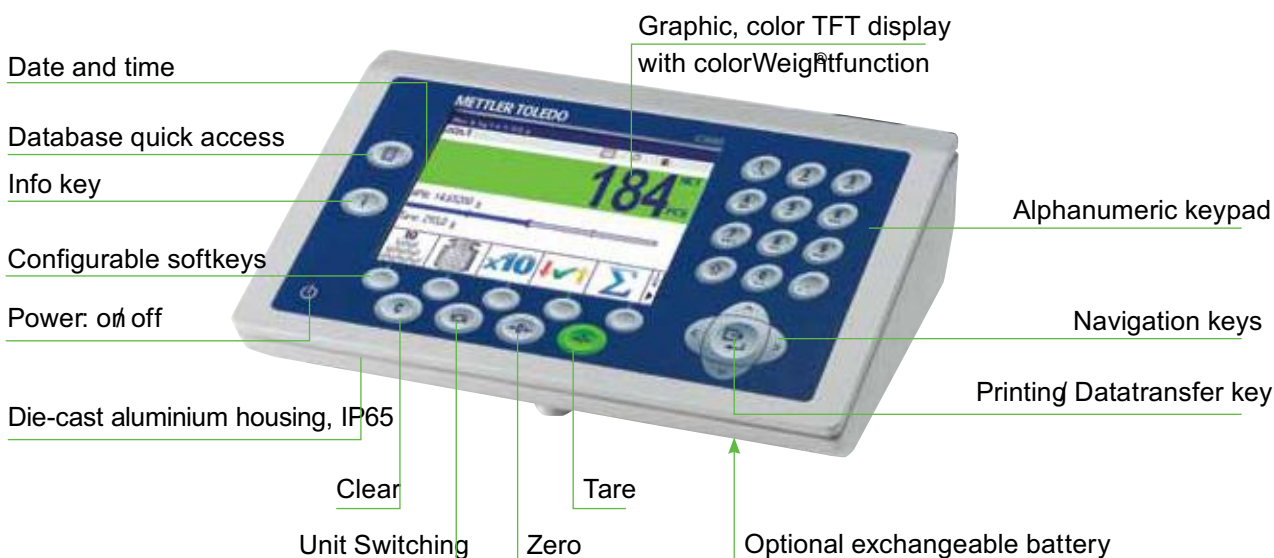
• Easy database(s) configuration
• Independent database saving
• One central database avoiding duplications
• Straightforward monitoring of weighing details on a PC

Set user profiles and allocate softkeys.

Five Steps to Tailor Your Scale

1 Configure Your ICS685 Multifunctional Terminal

- Date and time
- Database quick access
- Info key
- Configurable softkeys
- Power: on / off
- Die-cast aluminium housing, IP65
- Graphic, color TFT display with colorWeight® function
- Alphanumeric keypad
- Navigation keys
- Printing / Datatransfer key
- Optional exchangeable battery
- Clear
- Tare
- Unit Switching
- Zero

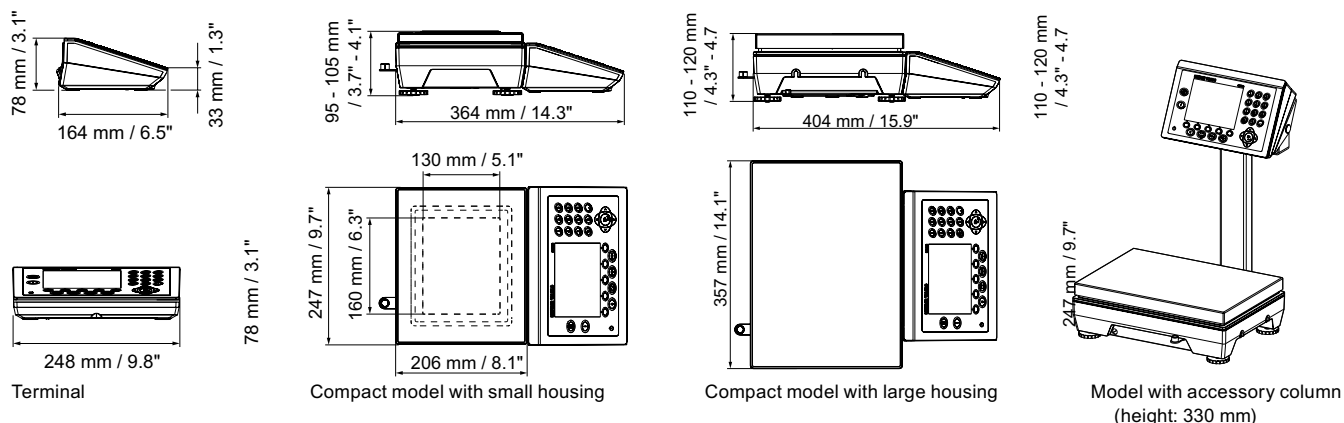| Weighing Applications	Functions	Statistic function
Straight weighing	Alibi[1] memory/Transaction memory	User prompting
Average weighing	Scale embedded database (up to 30 000 articles)	User management function
Counting		Fully Automated Calibration Technology (FACT[2]) for MonoBloc® scales
Totalizing	Software to administer/manage database	
Totalizing to a target	Printing	Temperature check function
Over/Under Checkweighing, Filling	Languages: English, German, French, Italian, Spanish, Chinese	Routine tests: calibration checks, linearity, corner load test
4 attachable platforms		

2 Interface Options / Accessories

Data Interfaces	Standard: 2 RS232 plus 2 optional interfaces selectable from: RS232, RS422/485, USB device, USB host, Ethernet, WLAN, Digital I/O, digital/analog scale interface
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] The Alibi memory is a memory of a Weights & Measures approved weighing system. It is a scale embedded database that stores weighing data with time and date. 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.

[2] Fully Automated Calibration Technology (FACT): automatically calibrates the scale according to time and temperature changes and increases accuracy of weighing results.

3 Scale Design/Dimensions

Terminal

Compact model with small housing

Compact model with large housing

Model with accessory column
(height: 330 mm)

4 Capacity/Resolution

For highest precision: MonoBloc technology

ICS685k-

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	240x 200	350x 240	350x 240
Ingress Protection Standard/Optional	IP54 / -	IP54 / -	IP54 / -	IP54 / IP65	IP54 / IP65	IP54 / IP65

For best performance: Strain gauge technology

ICS685d-

Model	3SM/f	6SM/f	15LA/f	35LA/f	PBD655
Capacity [kg]	3	6	15	35	for higher capacities from 6 - 600 kg, 1 x 6000e see brochure PBD655 Digital Weighing Platform
Standard readability [g]	0.5	1	2	5	
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	
Platform size [mm]	240x 200	240x 200	350x 240	350x 240	240 x 300 mm - 600 x 800 mm
Ingress Protection Standard/Optional	IP54 / IP65	IP54 / IP65	IP54 / IP65	IP54 / IP65	IP65 / -

5 Service

Installation & 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 pro ductivity 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

Authorized Chanel Partner
SALES | SERVICE | SPARES

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