Where Hygiene and Data Security Counts
In Wet & Harsh Environments

Compact Weighing Systems

Easy to Clean
The ICS689 product line is designed using the latest hygienic design guidelines including EHEDG or NSF. This includes a double sealed, IP68 and IP69k protected terminal.
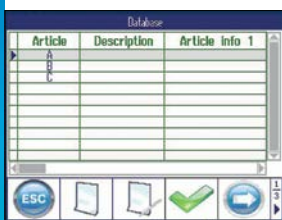
Powerful Database
Store up to 5000 articles and materials in the scale-embedded database together with relevant parameters such as target weight, tolerances and tare values.
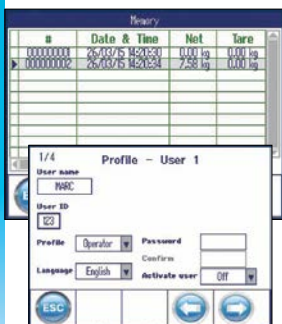
Secure Data Handling
In order to ensure regulatory compliance, weighing data including date/time, article ID or operator ID, is securely stored in a protected memory. Manage access to the scale and weighing data and ensure traceability with multi-level user access rights.

Configurable to your needs
You can choose between three different ways to mount the terminal relative to the platform in order to ensure optimum ergonomics and maximize productivity. A wide variety of platform sizes and capacities up to 600kg are available to best fulfil the requirements of your application.

ICS689 Combi Bench Solutions
Optimize Your Production Processes

The ICS689 compact scale product line features a very rugged design which fulfils the highest hygienic standards. IP69K protected terminals and hermetic sealed loadcells engineered in conjunction with platform designs conforming to the latest hygienic guidelines, enable efficient and easy cleaning access to all areas. All this makes the ICS689 perfectly suited for wet, harsh or hygienic environments in either the food, pharmaceutical or chemical industry.

- All stainless steel construction designed for hygienic or permanent wet environment
- High pressure water- or steam-jet cleaning
- Patented, double sealed terminals with IP69k
- ColorWeight® for fast and error-free readings
- Various interface options to manage even complex weighing applications
- Advanced data handling with dedicated functions and efficient tools
- Smart weighing counter for improved maintenance

METTLER TOLEDO

ICS689 Terminals – Technical Data

General Specifications

Applications & Functions	Basic weighing; Average weighing; Over/Under checkweighing; Portioning; Classifying; Totalizing; Totalizing to a target manual filling; Statistics; Counting; User prompting; User management; Configurable soft keys; Deactivatable hard keys; Alpha numeric keypad; Label printing; Article Database (max. 5,000 entries); Internal Alibi Memory (300,000 transaction); Calibration Log Files
Resolution Applications & Functions	Analog platforms: 300,000d; 7,500e; OIML / 10,000d; NTEP Digital IDNet or SICSpro platforms: The actual resolution is defined by the respective platform
Display	Color TFT display (320 x 240 pixel); 3 display layouts
Display languages	English, German, French, Italian, Spanish, Chinese, Portuguese, Japanese
Character height	Default layout mode = 25 mm, 3-line info mode = 17 mm
Keypad	Piezo keypad, extremely scratch-resistant, > 10,000,000 keystrokes
Housing	Stainless steel 1.4301, AISI 304
Ingress Protection	IP68 & IP69k
Power Connection	100 – 240 V / 50 – 60 Hz / 300 mA, Length of power cord approx. 2.5 m
Battery (Option)	12 VDC / 2.5 A: Continuous operation with one strain gauge load cell ~ 22 hours; with 4 strain gauge load cells ~ 18 hours. (Duration decreases with installed options like e.g. WLAN). Life time: 500 to 1,000 charging/discharging cycles
Interfaces (Standard and Options)	Standard: 1 x scale interface (Analog, IDNet or SICSpro) 1 x RS232 data interface 3 x Optional interfaces are possible: RS232, RS422/485, USB device, USB host, Ethernet, WLAN, Digital I/O (4 Inputs + 4 Outputs), IDNet scale, SICSpro scale, Analog scale
Connectable platforms	Up to 4 platforms can be connected. All Analog & SICSpro & IDNet platforms (except F-cell, AWU, GD16-17, PIK)*
Analog scale interface specification	Impedance: ≥ 87.5 Ω (means 1 x 350 Ω; 4 x 350 Ω), Excitation: 3.3 VDC, Sensitivity: 2 to 3 mV/V Max. Resolution: 7,500e (OIML), 300,000d (not approvable) Min. verification scale interval: 0.264 µV/e
Temperature Range	Class II, 10 to 30 °C (PBK7-Serie) Class II, 0 to 40 °C (PBK9-Series, PFK9-Series) Class III, -10 to 40 °C (Strain gauge)
Humidity	Max. rel. humidity 85 % for temperatures up to 40 °C
Net / Shipping weight	2 kg / 2.5 kg
Approvals	OIML, NTEP, CE, CSA C US, GMP, EHEDG, NSF (Weights & Measures data is shown in display and indicates if system is approved or not approved)

* depending on the configuration of the terminal: Maximum 2 analog, or 2 IDnet platforms respectively 1 analog plus 1 IDnet

Terminal Platform Combinations

t-Version

For wall mount, bench or desk operation -
for all platform sizes

f-Version

Front mounted terminal on long side of platforms -
for all platform sizes
(Not available with WLAN interface)

c-Version

Column mounted terminals on long side of platforms.
Terminal and column seamlessly welded together.
Column design secures and protects cables.
(Available for A, BB and QB size)

Capacities and Readabilities

Platform Size	3 kg	6 kg	15 kg	30 kg	60 kg	150 kg	300 kg	600 kg
A (240 x 300 mm)	●	●	●					
BB (300 x 400 mm)				●	●			
B (400 x 500 mm)				●	●	●		
BC (500 x 650 mm)					●	●	●	
CC (650 x 800 mm)					●	●	●	●
QA (229 x 229 mm)		●						
QB (305 x 305 mm)			●	●	●			
QC (457 x 457 mm)					●	●		
Readability not approved [1] [d1] (2x3,000d, standard) [d2]	0.5 g 1 g	1 g 2 g	2 g 5 g	5 g 10 g	10 g 20 g	20 g 50 g	50 g 100 g	100 g 200 g
Max. Readability not approved (30,000d)	0.1 g	0.1 g	0.2 g	0.5 g	1 g	2 g	5 g	10 g
Max. Readability approved [2] [e1] (2x3,000e, OIML Class III) [e2]	1 g -	1 g 2 g	2 g 5 g	5 g 10 g	10 g 20 g	20 g 50 g	50 g 100 g	100 g 200 g

1) Additional optional resolutions (not approved): 6,000d; 15,000d
2) Additional optional resolution (approved): 1x3,000e, OIML Class III

## Bundle ICS Terminals with PBK9 High Precision Platforms or any other platforms

The PBK9 Series high precision weighing platforms can be directly connected to all ICS terminals (see PBK9 datasheet for detailed specifications of the platforms). For PBK9 platforms of A- and AB-size the item „Factory Approval for SICSpro Scale" can be ordered for legal-for-trade applications. Terminal and platform will be shipped separately but can easily be connected to an approved weighing system at the place of installation.

You can connect any other analog or digital METTLER TOLEDO platform including floor scales to the ICS terminals.

Accessories

|	
I/O Accessories	Relay box for digital I/O including power supply
Covers, Brackets	Protective cover for terminals; Wall bracket; Desk mounting plate
Stands	In many heights and versions
PC Software	DatabICS PC Database management tool
Others	Printers; Interfaces; Cables and much more

Dimensions and Drawings
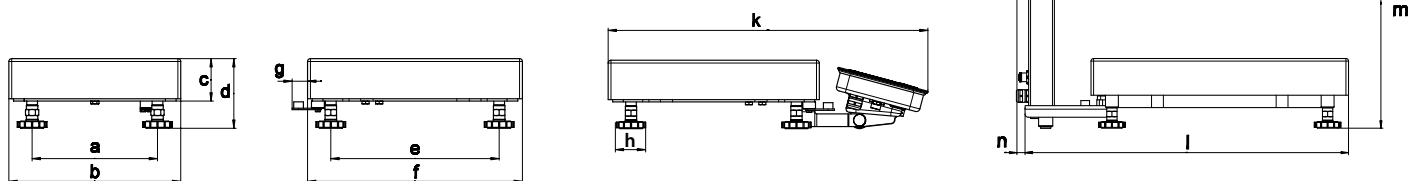
Dimension [mm]	A	BB	B	BC	CC	QA	QB	QC
a	175	235	335	435	503	170	233	392
b	240	300	400	500	600	229	305	457
c	56	57	57	70	79	56	57	60
d	95	97	97	108	130	95	97	100
e	235	335	435	587	724	170	245	397
f	300	400	500	650	800	229	305	457
g	22	15	15	15	21	22	15	15
h	42	42	42	42	42	42	42	42
k	418	485	581	681	772	407	489	640
l	337	404	500	600	691	326	408	559
m	412	412	412	412	412	412	412	412
n	34	34	34	34	34	34	34	34

Dimensions of Terminal

Dimension	[mm]
o	260
p	170
q	114
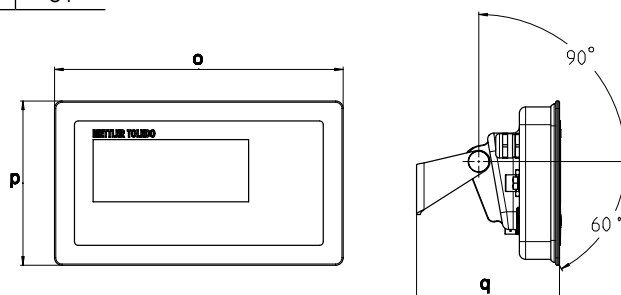
Length of load cell cable for t-Version

Capacity	Hermetically sealed stainless steel load cell
0 - 30 kg	1.5 m
60 - 600 kg	2.5 m

METTLER TOLEDO Service

Our extensive service network is among the best in the world and ensures maximum availability and service life of your product.

www.mt.com

Visit for more information