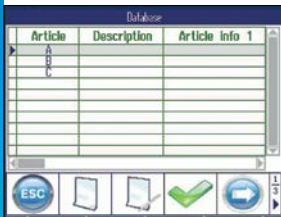


## Where Hygiene and Data Security Counts In Wet & Harsh Environments



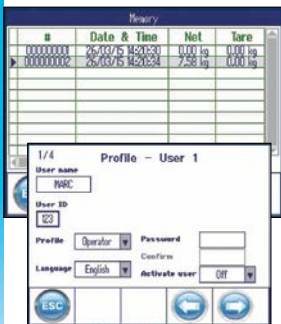
### Easy to Clean

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

## 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<br>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).<br>Life time: 500 to 1,000 charging/discharging cycles  |
| Interfaces (Standard and Options)    | Standard:<br>1 x scale interface (Analog, IDNet or SICSpro)<br>1 x RS232 data interface<br>3 x Optional interfaces are possible:<br>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.<br>All Analog & SICSpro & IDNet platforms (except F-cell, AWU, GD16-17, PIK)*   |
| Analog scale interface specification | Impedance: $\geq 87.5 \Omega$ (means 1 x 350 $\Omega$ ; 4 x 350 $\Omega$ ), Excitation: 3.3 VDC, Sensitivity: 2 to 3 mV/V<br>Max. Resolution: 7,500e (OIML), 300,000d (not approvable)<br>Min. verification scale interval: 0.264 $\mu\text{V/e}$   |
| Temperature Range                    | Class II, 10 to 30 °C (PBK7-Serie)<br>Class II, 0 to 40 °C (PBK9-Series, PFK9-Series)<br>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<br>(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 <sup>1</sup> [d1]<br>(2x3,000d, standard) [d2]        | 0.5 g<br>1 g | 1 g<br>2 g | 2 g<br>5 g | 5 g<br>10 g | 10 g<br>20 g | 20 g<br>50 g | 50 g<br>100 g | 100 g<br>200 g |
| Max. Readability not approved<br>(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 <sup>2</sup> [e1]<br>(2x3,000e, OIML Class III) [e2] | 1 g<br>-     | 1 g<br>2 g | 2 g<br>5 g | 5 g<br>10 g | 10 g<br>20 g | 20 g<br>50 g | 50 g<br>100 g | 100 g<br>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



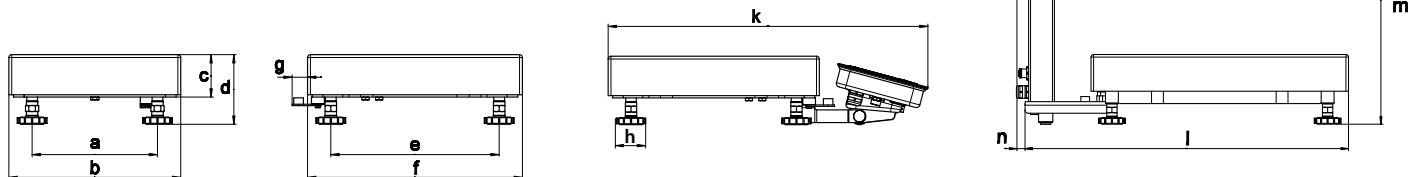
The PBK9 Series high precision weighing platforms can be directly connected to all ICS terminals (see PBK9 datasheet for detailed specifications of the platforms). For PBK9 platforms of A- and AB-size the item „Factory Approval for SICSpro Scale“ can be ordered for legal-for-trade applications. Terminal 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

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

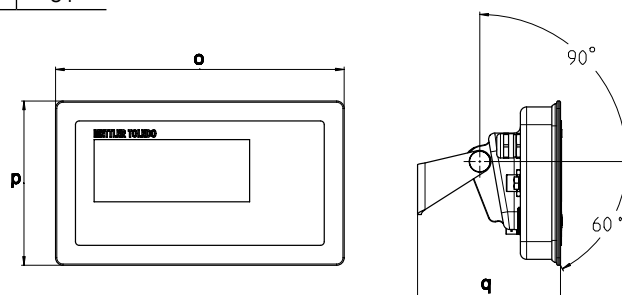
## Dimensions and Drawings



| 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.



Quality certificate ISO 9001  
Environment certificate ISO 14001

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