

## Designed to Speed up Production In Wet, Harsh and Hygienic Environments



### Maximum Versatility

The ICS4\_9 product line is the right fit for your application. Benefit from the user-friendly operation and from a wide range of platform designs, integration options and applications. The double sealed, IP68 and IP69k protected Indicators make it best suited for wet, harsh and hygienic environments.



### Sharp, Clear, Easy to Read

The large LC Display facilitates clear, comfortable and error-free data reading. The content of the displays is configurable and shows exactly what you need to know. Three selectable display modes provide only the most relevant parameters for your application.



### colorWeight® Speeds up Production

Save time and money with the smart colored display making weighing applications such as completeness checks or portioning simple, fast and less error prone. The colorWeight® display indicates at a glance if weight or count is below, within or above target.



### Configurable to Your Needs

You can choose between three different ways to mount the Indicator relative to the platform in order to ensure optimal ergonomics and maximize productivity. Three types of load cells are available to fulfil the requirements of your environment in order to guarantee reliable operation and a long lifetime.



### ICS4\_9 Combi Bench Solutions Optimize Your Production Processes

The ICS4\_9 compact scale product line offers seamless integration into your production process as your scale can be individually configured for fast and precise operations. The rugged and easy to clean stainless steel design makes it best suited for wet, harsh or hygienic environments in either the food, pharmaceutical or chemical industry.

- All stainless steel construction
- Patented, double sealed Indicators with IP69k
- ColorWeight® for fast and error-free readings
- Suited for simple weighing as well as for advanced applications
- Easy data handling with dedicated functions and efficient tools
- Smart weighing counter for improved maintenance

## ICS4\_9 Indicators – Technical Data



Model	ICS429	ICS439	ICS449	ICS469
Basic weighing; average weighing	•	•	•	•
Counting; Totalizing			•	•
Over/Under Checkweighing; Portioning			•	•
colorWeight®			•	•
Configurable soft keys			•	•
User prompting			•	•
Numeric keypad		•		•
Number of attachable platforms	1	1	2	2
Data storage (max. 100 entries)			•	•
Optional Alibi Memory (300,000 entries)			•	•

General Specifications	
Resolution	Analog platforms: Up to OIML 2x3,000e/ NTEP 5,000d Digital platforms: The actual resolution is defined by the respective platform
Display	LCD liquid crystal graphical display with backlighting; 3 different display layouts
Display languages	English, German, French, Italian, Spanish, Chinese, Portuguese, Japanese
Character height	Default layout = 19 mm; Big font mode = 25 mm; 3-line info mode = 15 mm
Keypad	Tactile-touch membrane keypad (PET), scratch-resistant, > 1,000,000 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). 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 1 x Optional interface is possible: RS232, RS422/485, USB device, USB host, Ethernet, Digital I/O (4 Inputs + 4 Outputs), IDNet scale, SICSpro scale, analog scale
Connectable platforms	All Analog & SICSpro & IDNet platforms (except F-cell, AWU, GD16-17, PIK) Connection of a second scale to ICS449 and ICS469 is limited to SICSpro- or SICS-interface
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: Up to 2x3,000e (OIML), 30,000d (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, GMP (Weights & Measures data is shown in display and indicates if system is approved or not approved)

## Indicator Platform Combinations



**t-Version**

Indicator placed on table or wall-mounted - for all platform sizes.



**f-Version**

Front mounted indicator on either side of PBA639 and PBD659, and on short side of PBA436 and PBA439. for A, QA, BB and QB sizes.



**c-Version**

Column mounted indicators on either side of PBA639 and PBD659, and on short side of PBA436 and PBA439. Cable design secures and protects cables.

## Capacities and Readabilities

Platform Size	3 kg	6 kg	12 kg	15 kg	30 kg	60 kg	120 kg	150 kg	300 kg	600 kg	Cable Length for t-version		
											PBA439/PBA639/PBD659	PBA436	
QA 228 x 228 [mm]	•	•										2.5 m	1.5 m
A 240 x 300 [mm]	•	•	•	•								2.5 m	1.5 m
QB 305 x 305 [mm]			•	•	•	•						2.5 m	2 m
BB 300 x 400 [mm]					•	•						2.5 m	2 m
B 400 x 500 [mm]					•	•	•	•				2.5 m	3 m
BC 500 x 650 [mm]						•	•	•	•			2.5 m	3 m
CC 600 x 800 [mm]						•	•	•	•	•		2.5 m	3 m

PBD659	3 kg	6 kg	12 kg	15 kg	30 kg	60 kg	120 kg	150 kg	300 kg	600 kg
Approved readability (6,000e)	0.5 g	1 g	2 g	n/a	5 g	10 g	20 g	n/a	50 g	200 g*
Recommended readability at max. resolution (60,000d)	0.05 g	0.1 g	0.2 g	n/a	0.5 g	1 g	2 g	n/a	5 g	10 g
Ingress Protection	IP68 / IP69k									

PBA639	3 kg	6 kg	12 kg	15 kg	30 kg	60 kg	120 kg	150 kg	300 kg	600 kg
Approved readability (3,000e)	1 g	2 g	n/a	5 g	10 g	20 g	n/a	50 g	100 g	200 g
Approved readability (2x3,000e)	n/a	1/2 g	n/a	2/5 g	5/10 g	10/20 g	n/a	20/50 g	50/100 g	100/200 g
Recommended readability at max. resolution (30,000d)	0.1 g	0.2 g	n/a	0.5 g	1 g	2 g	n/a	5 g	10 g	20 g
Ingress Protection	IP68 / IP69k									

PBA439	3 kg	6 kg	12 kg	15 kg	30 kg	60 kg	120 kg	150 kg	300 kg	600 kg
Approved readability (3,000e)	1 g	2 g	n/a	5 g	10 g	20 g	n/a	50 g	100 g	200 g
Recommended readability at max. resolution (15,000d)	0.2	0.5	n/a	1	2	5	n/a	10	20	50
Ingress Protection	IP68 / IP69k									

PBA436	3 kg	6 kg	12 kg	15 kg	30 kg	60 kg	120 kg	150 kg	300 kg	600 kg
Approved readability (3,000e)	1g	2 g	n/a	5 g	10 g	20 g	n/a	50 g	100 g	200 g
Approved readability (2x3,000e)	n/a	1/2 g	n/a	2/5 g	5/10 g	10/20 g	n/a	20/50 g	50/100 g	100/200 g
Recommended readability at max. resolution (15,000d)	0.2	0.5	n/a	1	2	5	n/a	10	20	50
Ingress Protection	IP65									

\*3,000e

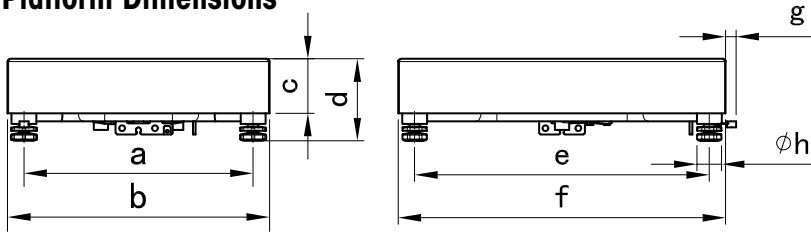
## Bundle ICS Indicators with PBK9 High Precision Platforms or any other platform

The PBK9 Series high precision weighing platforms can be directly connected to all ICS indicators (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. Indicator 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 Indicators.

# Technical Specifications

## Platform Dimensions



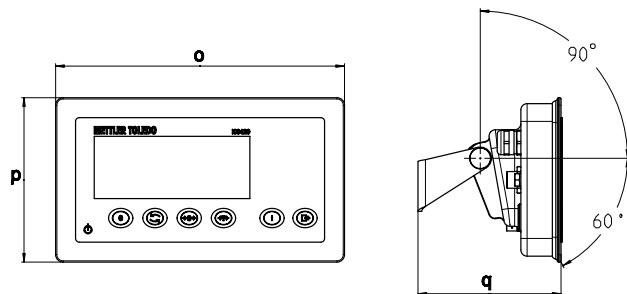
Dimensions of PBA639 & PBD659		a	b	c	d min	e	f	g	h
QA	mm	178	228	70	110	178	228	21	40
A	mm	190	240	70	110	250	300	21	40
QB	mm	255	305	70	110	255	305	21	40
BB	mm	250	300	70	110	350	400	21	40
B	mm	350	400	83	126	450	500	21	40
BC	mm	450	500	90	134	600	650	21	40
CC	mm	550	600	90	134	750	800	21	40
CC[600 kg]	mm	550	600	94	140.5	750	800	21	40

Dimensions of PBA436 & PBA439		a	b	c	dmin_PBA436	dmin_PBA439	e	f	g	h
QA	mm	163	228	56	97.6	97.6	163	228	21	42
A	mm	175	240	56	97.6	97.6	235	300	21	42
QB	mm	240	305	57	108.6	108.6	253	305	18	42
BB	mm	235	300	57	108.6	108.6	335	400	18	42
B	mm	335	400	59	112.1	112.1	435	500	18	42
BC	mm	437	500	73	122.8	118.8	584	650	17	42
CC	mm	503	600	85	144	140.3	724	800	18	42

\*Dimensions of PBK please see PBK datasheet

## Indicator Dimensions

Dimension	[mm]
o	232
p	130
q	115



## Accessories

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

## METTLER TOLEDO Service

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

### METTLER TOLEDO Group

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