

High-Precision Platforms



PBK9 and PFK9 Weighing Platforms

High-precision weighing

Reliable in harsh conditions

Fast weighing processes

Flexible for many applications

High Accuracy

For Harsh Environments

METTLER TOLEDO

Accurate Weighing From Ultralight To Heavyweight

Accurate weighing helps you manage raw materials, ensure compliance with regulations and improve your product quality. For bench- and floorscale applications that require reliability with the best accuracy available, the PBK9 and PFK9 Weighing Platforms provide an outstanding performance. The range of platforms, with capacities from 0.6 to 3,000 kilograms at resolutions of up to 750,000 divisions, are useful for many applications.

In fragrance manufacturing, even the smallest drops can be added accurately on a PBK989-XS. (Capacity 610 grams. Non-approved readability 1 milligram.)

Discover in a second even small defects in one tooth of a gear made from powder metal. (Capacity 15 kilograms. Non-approved readability 20 milligrams.)

600 g



In formulation, precisely add one kilogram of powder to one ton of liquid with the PFK989-E1500. (Capacity 1,500 kilograms. Approved readability 50 grams)

3000 kg

Fill gas for legal-for-trade reselling efficiently and accurately on the PBK989-B60. (Capacity 60 kilograms. Approved readability 2 grams.)



Consistent Accuracy

Reliable Measurements in Any Environment

Environmental conditions can interfere with many precision instruments. Vibration, wind and temperature variances are just some of the outside influences that can cause errors in your formulations or mistakes in counting that result in the waste of high-cost ingredients or in rejected batches. The PBK9 and PFK9 Weighing Platforms virtually eliminate those risks, thanks to the Monobloc load cell and the robust design of the scale body, which absorb environmental interference.

Outstanding Accuracy



Thanks to its innovative measuring technology, the PBK9 and PFK9 Weighing Platforms ensure industry-leading metrological performance. With a resolution of up to 750,000 divisions (30,000e legal-for-trade approved), the weighing platform is ideally suited for all weighing processes in which quality is critical and tolerances need to be minimized.

Reliable Performance



There is no need to worry about environmental impacts to your scale's weighing performance. The PBK9 and PFK9 Weighing Platforms notify the operator when recalibration or adjustments are necessary due to environmental changes. Intelligent algorithms automatically adjust the platform and reduce the time and costs associated with regular testing.



Smart Load-Cell Technology

Accurate and Robust

The load cell, with Monobloc technology, is at the core of the PBK9 and PFK9 Weighing Platforms. Advanced technology guarantees the highest precision and reliability.

The robust load-cell housing features integrated overload protection and durable mechanical interfaces. This ensures stable weight values even under harsh environmental conditions and for many years of intensive use. The housing and membrane design ensure excellent measurement sensitivity and provide IP66/IP68 ingress protection against water and dust at the same time.

Automated calibration with a built-in calibration weight and plug-in cables allow for easy maintenance.

Functional Design

Integrated Into Any Workplace

Wherever you need high-precision weighing, the PBK9 and PFK9 Weighing Platforms are designed to be easily integrated into your process. The unique construction of the platform makes it suitable for a variety of challenging environments including areas with heavy dust, locations that need regular cleaning, and those classified as hazardous. The built-in lever and bearing mechanical structure ensures the scale maintains peak performance regardless of the application.

Hazardous Environments



When working in a hazardous environment, safety is key. The PBK9 and PFK9 Weighing Platforms are approved for the use in hazardous areas for Category 3 and Division 2 for top performance in gaseous and dusty environments. The load cell and its cable undergo stress tests to guarantee safe performance and ensure safe operation.



Approved and Non-approved Applications



Peak performance and compliance to the OIML and NTEP regulations safeguard you against profit losses in any legal-for-trade application. The weighing platforms are available with the maximum resolution of up to 750,000 divisions, if your processes do not depend on Weights and Measures regulations.





Safe Processes

The PFK9 Weighing Platforms (1.5 to 3 tons) are available with a lift option. Hinged load plates are supported by pneumatic springs. Those features guarantee safe opening and closing and provide fast access for service and for easy and efficient cleaning processes.

Installing floor scales in pits is beneficial to allow easy loading and unloading of material on the ground level. The pit frames, which are available as an accessory for all floor scales, ensure short installation time and easy positioning and leveling.

Easy and Flexible

Designed To Fulfill Your Needs

The high-precision PBK9 and PFK9 Weighing Platforms can be easily integrated into your processes via any of the METTLER TOLEDO weighing terminals or directly connected to an automation system. No matter where or what you want to measure, the PBK9 and PFK9 Weighing Platforms are easily implemented into your process.

Increased Throughput



Industry-leading stabilization times and an extremely fast data rate of up to 92 updates per second, make the PBK9 and PFK9 Weighing Platforms suitable for high-speed weighing processes. Short cycle times for checkweighing applications and filling operations guarantee maximum throughput, always within your process tolerances.

Direct Connectivity



PBK9 and PFK9 APW Weighing Platforms can be directly connected to any automation system via RS422 or RS485 and serviced with their additional RS232 interface. Special tools support the selection of optimized signal filtering, allowing your control system to capture fast and stable weight values at all times.

Versatile Operation

Suited for a Variety of Applications

When paired with the right application terminal or connectivity option, the PBK9 and PFK9 Weighing Platforms are excellent stand-alone solutions or operate as components.

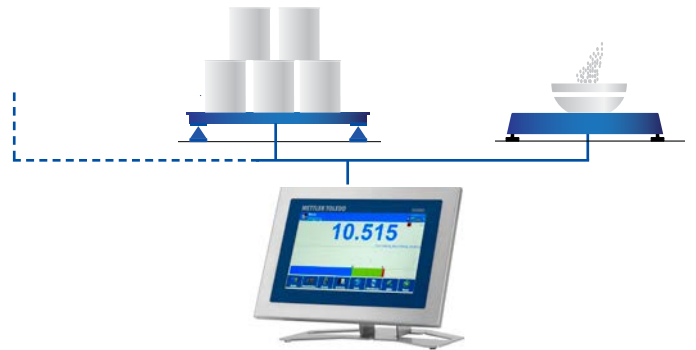
Counting

Instead of using a separate reference scale for counting applications, use one PBK9 or PFK9 Weighing Platform with an ICS689 terminal for the entire process. This saves space and time while eliminating unnecessary movements.



Formulating

The IND890 terminal is the perfect solution to manage customer-specific formulation processes where even complex set-ups with multiple platforms of different sizes and capacities are required.



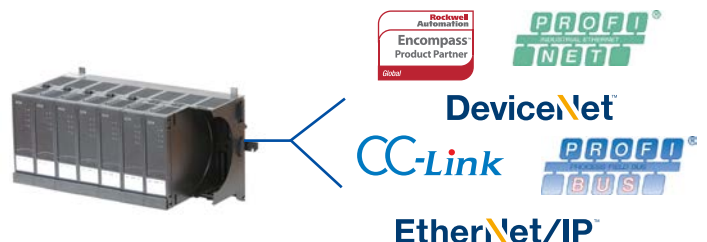
Filling

Exact results to the last drop are key to guarantee stable and reliable output. A PBK9 or PFK9 Weighing Platform connected to an IND570 terminal results in a powerful filling system.



Direct Connection

Fast reaction times of 92 updates per second speed up your processes and minimize tolerances. The PBK9 and PFK9 Weighing Platforms can be directly connected to your PLC control by using various fieldbus modules.



Comprehensive Product Portfolio

Globally Compliant

PBK9 and PFK9 Weighing Platforms offer multiple options. You can choose mild, galvanized or stainless steel for applications in wet, dusty, harsh or hazardous environments. Nine sizes and twelve capacities from 0.6 kilograms to 3 tons are available. All platforms can be connected to numerous METTLER TOLEDO terminals or directly connected to your control system.



Bench Platforms / Floor Platforms

XS

A

AB

Model	XS	A3	A6	AB15	AB30	AB60
Maximum Capacity [kg]	0.61	3	6	15	30	60
Readability Approved¹ [g] 30.000e, OIML Class II	0.01 ²	0.1	0.2	0.5	1	2
Readability Approved 3x10.000e Multi Interval OIML Class III	Max1 / e1 [kg/g]	-	1/0.1	2/0.2	5/0.5	10/1
	Max2 / e2 [kg/g]	-	2/0.2	5/0.5	10/1	20/2
	Max3 / e3 [kg/g]	-	3/0.5	6/1.0	15/2	30/5
Readability Non-approved [g] 750.000d/600.000d	0.001	0.005	0.01	0.02	0.05	0.1
Platform Size (Load Plate Size)	Width x Length [mm]	210 x 250 (130 x 160)	275 x 345 (240 x 300)		280 x 350	
Ingress Protection		IP54				
Hazardous Area Approvals⁴		-				
Platform Material	stainless steel AISI304					
Load Plate Material	stainless steel AISI304					

¹For further readabilities see datasheet ²60.000e ³24.000e ⁴available in Q4/2015



B



CC



C



D



E



ES

B60	B120	CC150	CC300	C300	C600	D600	D1500	E1500	E3000	ES1500	ES3000
60	120	150	300	300	600	600	1500	1500	3000	1500	3000
2	5 ³	5	10	10	20	20	50	50	100	50	100
20/2	50/5	50/5	100/10	100/10	200/20	200/20	500/50	500/50	1000/100	500/50	1000/100
50/5	100/10	100/10	200/20	200/20	500/50	500/50	1000/100	1000/100	2000/200	1000/100	2000/200
60/10	120/20	150/20	300/50	300/50	600/100	600/100	1500/200	1500/200	3000/500	1500/200	3000/500
0.1	0.2	0.2	0.5	0.5	1	1	2	2	5	2	5
400 x 500		600 x 800		800 x 1000		1000 x 1250		1250 x 1500		1500 x 1500	

IP66/68

ATEX: Category 3GD
FM: Division 2

mild steel powder coated

mild steel galvanized

mild steel galvanized

mild steel powder coated

A Tailored Service Offering Ensures Compliance and Reliability

From evaluating your needs to select the right scale, through to daily routine operation, our Sales & Service Team can accompany you every step of the way. Especially when high accuracy is important, the selection of the right scale, as well as its calibration and maintenance, is key.

METTLER TOLEDO Good Weighing Practice (GWP®) ensures excellent performance, maximum uptime and full compliance with the norms and standards relevant to your industry.

Evaluation and selection

Our GWP® Recommendation service helps you select the right scale according to your specific process and quality requirements.

Installation

We document the installation and qualification of your scale in accordance with the relevant industry regulations. Operator training right after installation leads to improved productivity.



Calibration

Scale calibration is at the core of accurate weighing results. Each calibration certificate declares the scale's minimum weight and measurement uncertainty.

Routine operation

GWP® Verification provides clear guidance for performance verification of your scale to save you time and money.

► www.mt.com/gwp

www.mt.com

Visit for more information

Mettler-Toledo AG
Industrial Division
CH-8606 Nänikon, Switzerland

Local contact: www.mt.com/contacts

Subject to technical changes
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