

PFA584/589 Floor Scales

Accurate Out-of-the-Box Faster Scale-Up **Globally Approved**

Globally Configurable Solutions

Customized for Maximum Value



Floor Scale Procurement Made Easy Solutions for Every Application

At METTLER TOLEDO, we know the needs of every industry are different, which is why the PFA5 is not a one-size-fits-all solution. We have taken the pain out of the floor scale configuration process by creating an easy-to-order, globally standardized set of components that can easily be mixed-and-matched to formulate your ideal scale.

What you can expect from this easy-to-configure solution:





Accurate Out-of-the-Box

By storing the factory calibration values within the scale, you get out-of-the-box accuracy and easy setup. Not only does this save you time and money during installation, it also gives you assurance your weighments are METTLER TOLEDO accurate.



The ability to mix-and-match from a set of globally approved components significantly eases the ordering and scale up process. Whether you are outfitting a single production line or sister factories around the world, the PFA5 makes the process painless.

Global Approvals for Consistency

Metrology: OIML, NTEP, CPA Wireless: FCC, CE/RED,SRRC EMC: FCC, CE Bluetooth: SIG Safety: UN38.3/battery transportation, IEC/EN61010, UL Ex: IECEx, ATEX, FM approved for Hazardous Areas Zone 1/21, 2/22 and Div 1/Div 2

EPC or System Integrator? The PFA5 helps make your job easier!



As an EPC or system integrator, you may work with a variety of applications for companies who are multi-regional or even multinational. Our globally standardized floor scale solution enables you to easily deliver a standard solution to your customers worldwide. This ability to provide consistency worldwide in combination with our extensive portfolio of weighing and processing solutions and our consultative approach enable a smooth process for you and your customers.

Our Solutions for your Application Environment



Chemical and Hazardous Environments

For chemical and hazardous manufacturing environments, corrosive materials and safety are top concerns. Maximize uptime and compliance to hazardous area standards with this robust configuration: Stainless or mild steel platform

- Rocker pin suspension
- 0745A stainless steel load cells



Pharmaceutical

For pharmaceutical manufacturers, quality and compliance are key. Limited space, repeatable measurements, and cleaning can be challenging. Ensure compliance with this smart configuration: • Stainless steel smooth plate

- Rocker pin suspension

- 0745A stainless steel load cells

Food

For food manufacturing environments, productivity and hygiene are key. Heavy wash-down and temperature changes can lead to high maintenance costs. Stand up to the harshest environments with this rugged configuration: Stainless steel pattern plate

- Rocker foot suspension
- AJB579d SICSpro junction box
- 0745A stainless steel load cells

General Manufacturing

Heavy duty applications require the toughest scale. Forklift traffic, heavy loads, and forceful impacts create havoc with sensitive measurement devices. Choose a configuration that can stand up to the daily rigor:

- Mild steel platform
- Rocker pin suspension
- AJB459 junction box
- SLB415 nickel plated load cells

Check out the next page for easy configuration!

• AJB579 Ex-approved stainless steel junction box

ACW520 Cable-Free junction box

Easily Build Your Ideal Solution Mix-and-Match Scale Configuration

Significantly ease the ordering and scale up process with flexible customization and expert METTLER TOLEDO consultancy. It's easy to see why this solution is ideal for multinational companies, because it eliminates the need to order different configurations country-by-country.

Use the scale builder tool to configure your ideal solution. Choose your:

3. Technology



METTLER TOLEDO

4. Load Cell

Build Your Ideal Solution



 With the PFA5 we were able to order exactly what we needed to retrofit our line without the typical wait time for customized solutions.

Operations Manager

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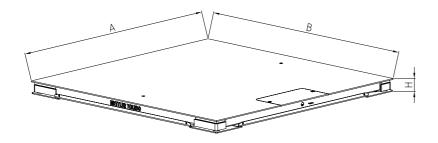
2. Suspensions

Floor Platforms Model Specific Data

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Maximum Capacity	kg	300	600	1,500	3,000	5,000	10,000
Height (H)*	mm	78	78	78	78	78	102
Sizes A × B, See above dime	ensional dra	wing	*				
800x800	[mm]	•	•	•			
1000x1000	[mm]	•	•	•			
1250x1250	[mm]	•	•	•	•	•	•
1250x1500	[mm]	•	•	•	•	•	•
1500x1500	[mm]	•	•	•	•	•	•
1500x2000	[mm]			•	•	•	•
2000x2000	[mm]			•	•	•	•
EtO size					•		
250x250 to 1500x1500	[mm]	•	•				
250x250 to 1800x1800	[mm]			•			
600x600 to 2500x3000	[mm]				•		
750x750 to 2500x3000	[mm]					•	
900x900 to 2500x3000	[mm]						•
* The height II is for realizer pi	n/full framo	ouopopoiop opti					

* The height H is for rocker pin/full frame suspension option.



Weights and Measures - Legal for Trade Data OIML (International Organization of Legal Metrology)

OIML certification provides confidence that a weighing device complies with the OIML R76 regulation, which establishes the metrological characteristics required for weighing instruments and specifies methods and equipment for checking their conformity.

Maximum Capacity	kg	300	600	1,500	3,000	5,000	10,000				
Approved Accuracy_Resolution Class III Single Range - 1x3,000e											
Approved Readability (e min.)	[kg]	0.1	0.2	0.5	1	2	5				
Minimum Capacity	[kg]	2	4	10	20	40	100				
Approved Accuracy_Resolution	n Class I	II Single Range -	1x6,000e								
Approved Readability (e min.)	[kg]	-	0.1	-	0.5	1	-				
Minimum Capacity	[kg]	-	2	-	10	20	-				

Weigh and Measure OIML General Thresholds

Zero Setting Range	[%]	2% of Maximum Capacity
Taring Range	[kg]	Subtractive from 0 to Maximum Capacitiy
Temperature Range	[°C]	-10°C+40°C
Preload Range	[kg]	18% of Maximum Capacity

Weighing - Performance Data

the statistical mean value of all measured devices.

Maximum Capacity	kg	300	600	1,500	3,000	6,000	10,000
Recommended Readability (min.)	•						
15,000d	[kg]	0.02	-	0.1	0.2	-	-
30,000d	[kg]	0.01	0.02	0.05	0.1	0.2	0.04
Minimum Weight @ 1% for 30,000d	[kg]	1.2	2.6	6.4	14	26	-
Typical Values **	•	1				1	
Repeatability sd (at full load) for 3,000e /15,000d	[g]	7	14	35	80	150	300
Repeatability sd (at full load) for 6,000e/30,000d	[g]	6	13	32	70	130	250
Error of indication (at half load)	[g]	13	30	65	120	250	500
Error of indication (at full load)	[g]	20	40	100	170	360	700

Total Preload Range of non-approved PFA584/589

Scale Maximum Capacity	kg	300	600	1,500	3,000	6,000	10,000
Platform Size							
800x800	[kg]	470	1,390	2,560	1,210	-	-
1000x1000	[kg]	450	1,370	2,540	1,190	-	-
1250x1250	[kg]	420	1,330	2,500	1,150	2,360	6,590
1250x1500	[kg]	390	1,310	2,480	1,130	2,330	6,490
1500x1500	[kg]	370	1,290	2,460	1,110	2,310	6,340
1500x2000	[kg]	-	-	2,400	1,040	2,210	6,650
2000x2000	[kg]	-	-	2,340	920	2,070	6,620

Mechanical Thresholds

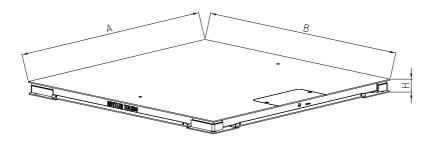
Maximum Capacity	kg	300	600	1,500	3,000	6,000	10,000
Maximum static safe load(kg)							
Central load	[kg]	1,500	3,500	3,500	4,500	9,000	18,000
Side load	[kg]	900	2,300	2,300	3,000	6,000	9,000
Corner load	[kg]	450	1,150	1,150	1,150	3,000	4,500

Performance data or typical values are determined in production with no wind drafts and no vibration. Typical values represent

Floor Platforms Model Specific Data

Maximum Capacity	[lbs]	500	1,000	2,500	5,000	10,000	20,000
Height (H)*	[in]	3-1/16	3-1/16	3-1/16	3-1/16	3-1/16	4
Platform Size							
30x30	[in]	•	•	•			
36x36	[in]	•	•	•			
48x48	[in]	•	•	•	•	•	•
48x60	[in]	•	•	•	•	•	•
60x60	[in]	•	•	•	•	•	•
60x84	[in]			•	•	•	•
72x72	[in]			•	•	•	•
EtO Sizes							
10x10 to 60x60	[in]	•	•				
10x10 to 72x72	[in]			•			
24x24 to 96x120	[in]				•		
30x30 to 96x120	[in]					•	
36x36 to 96x120	[in]						•

* The height H is for rocker pin/full frame suspension option.



Weights and Measures - Legal for Trade Data Weights and Measures - Legal for Trade Data

NTEP certificate of conformance provides confidence that a weighing device complies with Handbook 44 regulation, which establishes the metrological characteristics required for weighing instruments and specifies methods and equipment for checking their conformity.

Maximum Capacity	[lbs]	500	1,000	2,500	5,000	10,000	20,000			
Approved Accuracy_Resolution Class III Single Range - 5000d										
Approved Readability (e min.)	[lbs]	0.1	0.2	0.5	1	2	5			
Minimum Capacity	[lbs]	10	20	50	100	200	500			

Weigh and Measure NTEP General Thresholds

Taring Range	[lbs]	Subtractive from 0 to Maximum Capacitiy
Temperature Range	[°F]	14°F104°F

Weighing - Performance Data

Performance data or typical values are determined in production w the statistical mean value of all measured devices.

Maximum Capacity	[lbs]	500	1000	2,500	5,000	10,000	20,000
Recommended Readability (min.)							
10000d	[lbs]	0.05	0.1	0.25	0.5	1	2
Typical Values **							
Repeatability sd (at full load) for 10000d	[lbs]	0.0154	0.033	0.066	0.18	0.33	0.66

Total Preload Range of non-approved PFA584/589

Scale max	imum capacity	[lbs]	500	1,000	2,500	5,000	10,000	20,000
	30x30	[in]	1,190	730	2,010	4,120	-	-
	36x36	[in]	1,150	710	1,960	4,080	-	-
D 1	48x48	[in]	1,060	620	1,900	4,010	8,110	16,510
Platform Size	48x60	[in]	1,010	570	1,830	3,950	8,050	16,420
3126	60x60	[in]	930	460	1,740	3,860	7,960	16,310
	60x84	[in]	-	-	1,610	3,700	7,720	16,120
	72x72	[in]	-	-	1,610	3,730	7,690	16,120

Mechanical Thresholds

Maximum Capacity	[lbs]	500	1,000	2,500	5,000	10,000	20,000
Maximum static safe load (lb)							
Central load	[lbs]	3,000	3,000	7,500	9,000	15,000	30,000
Side load	[lbs]	1,900	1,900	5,000	6,500	10,000	15,000
Corner load	[lbs]	900	900	2,500	2,500	6,500	9,000

Glossary

Weighing Terms	Simple Definition
Readability	The smallest difference in mass that correadability is equal to the division valu what is prescribed by the manufacturer measures authorities.
Resolution	Smallest difference between displayed expression for the number of scale inte
Minimum Capacity	The lower range of a scale that should eliminate excessive relative weighing e it is considered a more accurate metho
Repeatability	Ability of a weighing instrument to prov several times in a practically identical ability is expressed as a standard devi
Error of Indication at full load / half load	The difference between the weight indic on the scale. The value represents the times this is wrongly referred to as sen
Minimum Weight	Smallest (sample) weight required for minimum weight threshold results in e tolerance.

vith	no	wind	drafts	and	no	vibration.	Typical	values	represent
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can be read on a weighing instrument. For instruments with a digital display, the lue or actual scale interval of the display. Recommended readability (min.) is er; whereas, approved readability is prescribed (or mandated) by weights and

I indications that can be meaningfully distinguished - this is a non-technical tervals. Sometimes confused with readability.

d not be used, this range is mandated by weights and measures intended to errors. In industry, it is recommended to use minimum weight instead because nod that considers the customer's production tolerance.

ovide results that agree one with the other when the same load is deposited way on the load receptor under reasonably constant test conditions. Repeat-/iation.

icated on the display and the actual test weight (full load / half load) placed combined error of non-linearity, sensitivity offset and repeatability. Note: Somensitivity error, or span error.

r a weighment to achieve a desired weighing tolerance. Weighing below the errors because the sample weight is too small to achieve the defined process

Options / Accessories

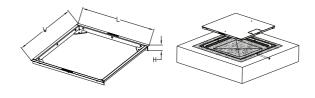
Ramps

Ramps allow easy access from any side of a scale, eliminating the need to lift heavy loads onto the platform.

							\sim			\sim		
Model			Standard	I Profile R	Standard Profile Ramp (20k)							
	W [in]	30	36	48	60	72	84	48	60	72	84	
Dimensions	H [in]							4				
	L [in]	36										
Material		Painted Mild Steel or Glass Blasted Stainless Steel										
Top plate		Smooth or Patterned										
Model		s	Standard Profile Ramp (6t and below) Standar						ard Profile Ramp (10t and above)			
	W [mm]	800	1000	1250	1500	2000	1250	1500)	2000	_	
Dimensions H [mm] 79						102						
	L [mm]	914										
Material	Painted Mild Steel or Glass Blasted Stainless Steel								_			
Top plate		Smooth or Patterned							_			

Quick-Pit Frame

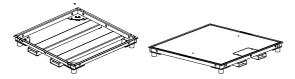
With our Quick-Pit frame, installing a floor scale in a pit is an easy, trouble-free process. Just level the frame in the pit and pour concrete to complete the pit. After the concrete has cured, install the scale and anchor it. The result is a pit scale that is square and flush with the floor.



Model		Standard Profile Pit Frame (10k and below) Standard Profile Pit Frame (20k)											
Scale Siz	e	30x30	36x36	48x48	48x60	60x60	72x72	60x84	48x48	48x60	60x60	72x72	60x84
Frame	W [in]	33.75	39.75	51.75	51.75	63.75	75.75	63.75	51.75	51.75	63.75	75.75	63.75
Dimen-	L [in]	33.75	39.75	51.75	63.75	63.75	75.75	87.75	51.75	63.75	63.75	75.75	87.75
sisions	sisions H [in] 3.25							4.19					
Material	·				Painted	Mild Stee	l or Glass	Blasted Sto	ainless St	eel			
Model		Standard Profile Pit Frame (6t and below) Standard Profile Pit Frame (10t and abo						above)					
Scale Siz	e	800x 800	1000x 1000	1250x 1250	1250x 1500	1500x 1500	1500x 2000	2000x 2000	1250x 1250	1250x 1500	1500x 1500	1500x 2000	2000x 2000
Frame	W [mm]	895	1095	1345	1345	1595	1595	2095	1345	1345	1595	1595	2095
Dimen-	L [mm]	895	1095	1345	1595	1595	2095	2095	51.75	63.75	63.75	75.75	87.75
sisions	H [mm]	83											
Material				Painted Mild Steel or Glass Blasted Stainless Steel									

Forklift Channel Frame

This frame makes it easy to move the scale with a forklift. Simply slide the forks into the channels and lift. The heavyduty frame protects the scale from damage.



Pit Liner

Pit Liner makes the pit more clean and sanitary.



Scale Guard

Protect your scale from side-impact damage with scale guards. When a forklift hits the side of a scale, the impact can bend the scale's frame or damage its load cells. The angled guard prevents damage by deflecting the impact upward. Scale guards can be used on any or all sides of a floor scale.

General Specifications

Model		PFA584	PFA589				
Platform Material	Mild Steel Powder Coated, Blue	•					
	Stainless Steel AISI 304		•				
	Stainless Steel AISI 316L		•**				
Top Deck Plate	Smooth	•	•				
	Pattern	•	•				
Sizes	·	From 0.8×0.8 m to 2.0×2.0 m a	nd 30x30 inch to 72x72,				
Capacities		From 300 kg to 12,000 kg / 500ll	os to 20,000lbs				
Compliance Metrology		OIML Class III, NTEP Class III, CPA	Class III				
	EMC	10 V/m					
Hazardous Area Approvals	ATEX	No	II3G / II3D Load cell 0745A: KEMA 03ATEX1070* Junction box AJB579xx-a: BVS 18 ATEX E 008 II2G / II2D Load cell 0745A: KEMA 03ATEX1069* Junction box AJB579x-a: BVS 18 ATEX E 007*				
	IECEx	No	Gb / Db or Gc /Dc Load cell 0745A: IECEx DEK 15.0017* Junction box AJB579x-a/AJB579xx-a: IECEx BVS 18.0008*				
	FM US	NI/I, II, III/2/ABCDFG/T6 Ta=55C					
	FM Canada	NI/I, II/2/ABCDFG/T6 Ta=55C / DIP/III/2/T6 ta=55C					
	NEPSI CN	Ex ic nA IIC T4 Gc Ex nA IIC T4 Gc Ex tD A22 IP6X T130°C Ex ib IIC T4 Gb Ex ibD 21 T85-T135					
Temperature	Compensated	-10°C - +40°C / 14°F - 104°F					
Range	Operating (safe area)	-20°C - +65°C	65°C				
Home Run Cable /	Length	Polyurethane, 3 m, 10 m, 20 m					
Load Cell		SLB415 / 0745A, IP68/IP69K					
Scale Interfaces		Analog, SICSpro					

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METTLER TOLEDO Service delivers resources to enhance your efficiency, performance and productivity by providing service packages that fit your operational needs, maximize your equipment lifetime, and protect your weighing solution scale investment.

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Start with

professional installation Installation services include support

for your unique production situation:

- Professional IQ/OQ/PQ/MQ documentation
- Initial calibration and confirmation of fit-for-purpose
- Hazardous area installations

Maintain accuracy over time

Verification[™]), including a routine testing plan that specifies four key factors to maximize your efficiency and ensure quality:

- Tests to perform
- · Weights to use
- Tolerances to apply

Calibrate for quality and compliance

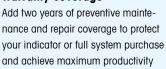
Receive professional guidance (GWP

- Testing frequency

Professional Accuracy Calibration Certificate (ACC) determines measurement uncertainty in use over the entire weighing range. Corresponding annexes give a clear pass/fail statement for specific tolerances applied, such as fit-for-purpose (GWP®), OIML R76, NTEP HB44, or further regulations.



Extend your warranty coverage



Schedule maintenance



Full preventative maintenance plans offer inspection, functional testing, and proactive replacement of worn parts.

ment of current condition with professional maintenance recommendations.

www.mt.com/PFA584 www.mt.com/PFA589 For more information





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and budget control.