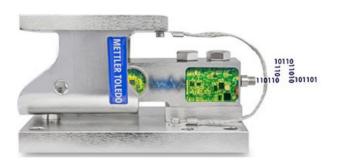


SWB605/SWC615 PowerMount Weigh Modules

PowerMount compression weigh modules for conversion of tanks, hoppers and conveyors into a scale.

Load Cell Diagnostics

To avoid bad batches and provide maximum uptime PowerMount weigh modules monitor individual load cells "real time" and provide alarms in case of a failure. Load cell overload, drift and system symmetry are constantly monitored and logged.





Highest Accuracy

For the highest product quality with minimum waste PowerMount Weigh Module PowerCells are available up to OIML 10000e, C10 accuracy level; three times more accurate than typical industrial load cells. The built-in microprocessor compensates temperature, creep and linearity effects continuously - far beyond what analog load cells can achieve.

The product features

- Capacity range 110kg .. 300t (220lb .. 660klb)
- Materials: Zinc Plated, 304, 316 stainless steel
- Accuracy: OIML C3, C6, C10 NTEP 5.000d, 10.000d
- Hazardous Approvals: ATEX, IECEx, FM, cFM, Nepsi
- ATEX/IECEx Zone1&21; FM Div1 approval
- IP68/IP69K Protection Class

Tank Scale Calibration Services

Discover various tank scale calibration services from METTLER TOLEDO. Compare different methods based on tank size, and learn the pros and cons of each. See how our globally available services help ensure the proper performance of tank scales.









CalFree Plus - Weightless Calibration

PowerMount Weigh Modules support CalFree Plus, weightless calibration on a fingertip. Compared to analog CalFree this method is more accurate with no risk of human calculation error. CalFree Plus even compensates for local gravity effects. The PowerMount system has no junction boxes or cable effects to negatively impact accuracy.



Built-in Safety Features

All safety features like Lift-off Protection, 360° Checking, and Safety-Downstops are integrated. Therefore it does not matter, for the safety of the system, how the weigh modules are orientated. Even if a load cell breaks due to extreme overload from excessive wind, earthquakes or other external cause; the vertical Downstops provide a secondary support system.



Installation Made Easy

SafeLock(TM) locks the Weigh Module during shipment and installation. This feature protects the load cell from overload and maintains proper mounting plate alignment during installation. No need to purchase expensive dummy blocks. The Weigh Module can even be installed without the load cell to totally rule out the risk of load cell damage during installation.



Accessories

The Right Accessory for each Application

Weigh Modules can be adapted to applications by using specific accessories:

- Stabilizers to stabilize signal on tanks with aggressive mixers
- Thermal Pads to isolate load cells from conducted heat
- Shock/Vibration Pads to isolate load cells from shock/vibration
- Spacer Plates allow Weigh Module servicing without lifting tank
- Tools such as a jacking device to ease load cell installation
- Dummy Load Cells, passive WM for level control applications

SWB605/SWC615 PowerMount Weigh Modules

METTLER TOLEDO weigh modules enable the quick and safe conversion of a tank, vessel, silo, hopper, conveyor or structural systems into a scale. Built-in side-load and anti-lift protection ensure that safety, performance and precision are maintained. METTLER TOLEDO weigh modules are used in food, pharmaceutical and chemical applications. They are available in various versions depending on the application and environment to meet requirements of OEM machine manufacturers, system integrators and end-users. Weigh modules incorporate SafeLock for fast and safe installation. The weigh module is locked and acts as a solid block protecting the load cell from overload during installation. No need to buy expensive dummy weigh modules. A wide range of accessories are available for weigh modules including stabilizers for use with aggressive mixers and agitators, thermal pads to isolate from conducted heat and shock-vibration pads to dampen shock and vibration. Dead stands for level-control applications are also available.

METTLER TOLEDO offers a wide range of weigh modules from 5kg up to 300t capacity. Weigh modules are available in painted steel, zinc plated steel, 304 (1.4301) stainless steel and 316 (1.4401) stainless steel electro-polished. They are available in various legal-for-trade accuracy levels according to OIML R60 and NTEP HB44 starting from OIML 3000e (OIML C3), NTEP 5000d, OIML 6000e (OIML C6), NTEP 10000d to finally OIML 10000e (OIML C10). Weigh modules are available for hazardous area application and are approved according to ATEX, FM (Factory Mutual), cFM (Canada), IECEx and NEPSI. They meet protection classes IP67, IP68 or even IP69K. Weigh modules are available in EN1090 versions made in specially controlled and documented manufacturing process for high safety requirements. Weigh modules support the weightless calibration CalFree or even CalFree Plus allowing for tank calibration on a fingertip.

PowerMount weigh modules allow for diagnostics down to the load cell level, alarm the user in case of a failure and enable quick fix of problems. RunFlat allows simulation of failed load cell to continue production for minimal downtime.

Please refer to the following pages for more details on MT SWB605 and SWC615

SWB605 PowerMountTM

Tank Weighing SWB605 PowerMount™ weigh modules offer rugged construction and many features for easy installation and accurate and reliable tank weighing. Standard lift-off bolt copes with tipping forces while vertical safety down-stop provides additional safety.





repeatable weight. Load Cell POWERCELL® load cells have a rocker pin design that automatically aligns loa forces for accurate weighing. These

Conveyors and Mixers

Weigh modules are also designed for

dynamic-loading applications such as conveyors, mixers and blenders. SWB605 PowerMount™ provides 360° checking for ease of installation and maximum safety.

The rocker pin restores the top plate to its ideal position to maintain accurate,

pin design that automatically aligns load forces for accurate weighing. These hermetically sealed load cells are rated IP68/IP69K and can be used in all environments. The load cells are easy to inspect or replace.

Predictive Maintenance

SWB605 PowerMount[™] monitors single load cells for overload, zero driff, foundation problems, etc.; prompting action before system shuts down or measures incorrectly.



Right the First Time

SWB605 PowerMount™ Know What's Ahead

Safe, Accurate, Service Friendly

SWB605 PowerMount[™] features ensure correct scale system installation, right from the start. Weigh modules do not compromise on safety – all safety features are built-in. The rocker pin design provides the highest level of weighing accuracy. Service features, including SafeLock[™] provide easy and trouble free installation.

Features:

- Integrated lift-off protection
- Vertical safety down-stop
- Full 360° integrated checking
- Ground strap welding protection
- SafeLock[™] Weigh module locked for installation
- SafeLock[™] Load cell protected for installation
- Dual stabilizer option
- All load cells with IP68/IP69K and fully stainless steel
- Global approvals standard on each load cell
- OIML C3/NTEP III M n:5, OIML C6/NTEP III M n:10 or C10
- ATEX/IECEx Zone1/21 & 2/22 approval; FM Div1 & Div2 approval
- Zinc plated or stainless steel mounting hardware
- CalFree™ Plus: Precise calibration on a finger tip



SWB605 PowerMount™ Specifications - Weigh Module

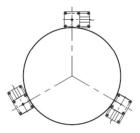
Weigh Module	Unit of measure			Specification					
Model No.				SWB605 PowerMount™					
Size			1	2		3			
Rated capacity (R.C.)	kg (lb, nominal)	220 (500)	550 (1250)	1100 (2500)	2200 (5000)	4400 (10000)			
Max. rated forces 1)									
Max. compressive force, rated	kN (lb)	2.2 (500)	5.4 (1250)	10.8 (2500)	21.6 (5000)	43.2 (10000)			
Max. horizontal transverse	kN (lb)		75(1685)		15 (3370)			
force, rated longitudinal			7.0 (1000)		10 (0070)			
Max. uplift force, rated	kN (lb)			22.2 (5000)					
Max. horizontal force (longitudinal) per stabilizer option, rated 7)	kN (lb)		5 (1120)						
Max. yield forces 2) 4)									
Max. compressiv force, yield	kN (lb)	3.2 (750)	23.3 (5120)	50 (11200)					
Max. horizontal transverse	kN (lb)			22 (4950)					
force, yield longitudinal			22 (4000)						
Max. uplift force, yield	kN (lb)		22 (4	1950)		34 (7640)			
lax. ultimate forces 3) 4)									
Max. compressiv force, ultimate 5)	kN (lb)		90 (2	0000)		150 (33000)			
Max. horizontal transverse	kN (lb)		10 (0	9400)		48 (10750)			
force, ultimate longitudinal			42 (6	9400)		40 (10750)			
Max. uplift force, ultimate	kN (lb)		50 (1	1200)		55 (12350)			
Restoring force	%A.L./mm	m 4.4 (111)		5.5 (140)					
	(/in) ®		4.4 (0.0 (140)			
lax. top plate travel Ingitudinal ®	± mm (in)			3.5 (0.14)					
Veight (including load cell), nominal	kg (lb)		6.6 (14.5)		7 (15.4)	15.4 (34)			
laterial		carbon steel / 304 stainless steel / 316 stainless steel							
inish			Zinc Plate	ed / Electropolished / Elect	ropolished				

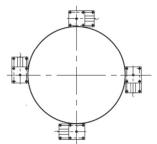
¹⁾ The weigh module is rated for these forces in normal operation, a factor of safety has been applied by METTLER TOLEDO.

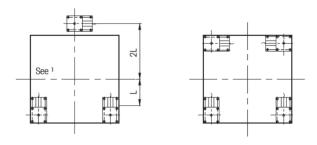
The weigh module is rated for these forces in normal operation, a factor of safety has been applied by METILER TOLEDO.
 Warning: if loaded statically one time in excess of these forces, the weigh module may yield and need replacing. The max. yield forces do not consider fatigue/cyclic loading and should be approached only in exceptional circumstances.
 Warning: if loaded statically one time in excess of these forces, the weigh module may break with potential for serious injury and/or property damage.
 Warning: apply a factor of safety appropriate to the application.
 The top plate will travel downwards by 5 mm (0.2 inches) before the down-stop engages and this ultimate force can be developed.
 % of Applied Load (A.L.) per mm (in) displacement of the top plate (transverse and longitudinal).
 T or 2 per weigh module. Max permissible longitudinal force per stabilizer.
 0 with stabilizer

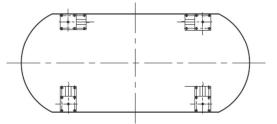
⁸⁾ 0 with stabilizer.

SWB605 PowerMount[™] Weigh Module Arrangements²









¹ provide equal distribution, but the stability of this arrangement must be assured

² Weigh modules may be orientated as desired only if stabilizers will not be used

SWB605 PowerMount[™] Specifications – Weigh Module

Load cell		Unit of measure							Speci	fication						
Item No.			30450308	30450311	30450314	30450317	30450320	30450323	30450326	30450329	30450332	30450335	30450338	30539636	30450344	3045034
Model No.								SLE	3615D PO	WERCELL®	0 12) 13)				II	
Rated capaci	ty (R.C.)	kg (lb, nominal)	:	220 (500))	E	50 (1250)	1	100 (250	0)	2	200 (500	0)	4400 ((10000)
Min. increme	nt size, typical 14)	g (lb)	1	4.4 (0.01))]	11 (0.025))		22 (0.05)			44 (0.1)		88	(0.2)
External reso	lution	Counts @ R.C.		220,000			550,000			1,100,000)	:	2,200,000)	440	,000
External reso	lution tolerance	%	± 0.04	± 0	.02	± 0.04	± 0	.02	± 0.04	± 0	.02	± 0.04	± 0	.02	± 0.04	± 0.02
Zero load out	tput	%R.C.							<	0.1						
Combined er	ror ^{9) 10)}	%R.C.				C	C3/IIIM n:5:	≤ 0.018	/ C6/IIIN	$1 n: 10: \le 0$	0.012 / 0	010: ≤ 0.0	07			
Temperature effect on	Min. dead load output	%R.C./°C (/°F)	0.0014 (0.0008)		C3/	IIIM n:5: ≤	≤0.0011 (0.0006)	/ C6/IIIM	n:10: ≤ 0.	.0007 (0.	0004) /	C10: ≤ 0.0	0007 (0.0	0004)	
ellectori	Sensitivity 10)	%A.L./°C (/°F)			C3/IIIM	n:5: ≤ 0.0	001 (0.000	06) / C6	/IIIM n:10	: ≤ 0.0008	5 (0.0003) / C10:	≤ 0.0003	(0.0002)		
Tomporaturo	Compensated							-1	0 ~ +40 ((+14 ~ +1	04)					
Temperature range	Operating	°C (°F)						-:	20 ~ +65	(-4 ~ +18	50)					
runge	Safe storage]						-4	0 ~ +80	(-40 ~ +1	76)					
OIML /	Class		C3	C6	C10	C3	C6	C10	C3	C6	C10	C3	C6	C10	C3	C6
European	nmax		3000	6000	10000	3000	6000	10000	3000	6000	10000	3000	6000	10000	3000	6000
approval ¹¹⁾	Vmin	g	20	1	0	37	2	5	70	5	0	150	10	00	290	250
NTEP	Class		III M n:5	III M n:10	-	III M n:5	III M n:10	-	III M n:5	III M n:10	-	III M n:5	III M n:10	-	III M n:5	III M n:10
	nmax		5000	10000	-	5000	10000	-	5000	10000	-	5000	10000	-	5000	10000
uppiovui	Vmin	lb	0.05	0.025	-	0.095	0.065	-	0.19	0.13	-	0.38	0.26	-	0.76	0.65
ATEX approval ¹¹)	Rating		11:	2 G Ex ib I	IB T4 Gb /	/ II 2 D Ex	ib IIIC T13	0C Db / -4	40°C ≤ Ta	≤ +55°C	/ 113G	Ex nA IIC	T6 Gc / II	3 D Ex to	IIIC T85°C	Dc
IECEx approval ¹¹⁾	Rating				Ex ib II	B T4 Gb /	Ex ib IIIC T	130°C Db	o/Exn	A IIC T6 G	c / Ex ec II	C T6 Gc /	Ex tc IIIC T	85°C Dc		
Factory	Rating, USA		IS / I, II	, III / 1 / CD	EFG / T4 To	a = -40°C t	0.55℃;1/ NI/			a = -40°C to G / T6 -40°			ib/IIIC/T1	30°C Ta =	-40°C to 58	5°C/Db
mutual approval ¹¹⁾	Rating, Canada		IS / I, II	, III / 1 / CD	EFG / T4 To	a = −40°C t	o 55°C;1/ NI /			i = -40°C to G / T6 -40°			ib/IIIC/T1	30°C Ta =	-40°C to 58	5°C/Db
Supply voltage non- regulated	Range (nominal)	V DC							10	~ 26						
Overvoltage protection	Max. tested (IEEE4-95)	А						2000 (n	o outdoor	lightning c	conditions))				
Effective system (4 load cells)	em update rate)	Hz							1	00						
Material	Spring element								Stainle	ess steel						
	Туре								We	elded						
Protection	IP rating								IP68	, ip69k						
	NEMA rating								NEM	a 6/6P						
Deflection @	R.C., nominal	mm (in)	0.	16 (0.006	6)	C	0.25 (0.01)	0	.32 (0.013	3)	0.	.43 (0.01	7)	0.72 ((0.028)
Weight, nom	inal	kg (lb)					1 (2.2)						1.3 (2.9)		2.2	(4.8)

9) Error due to the combined effect of non-linearity and hysteresis.

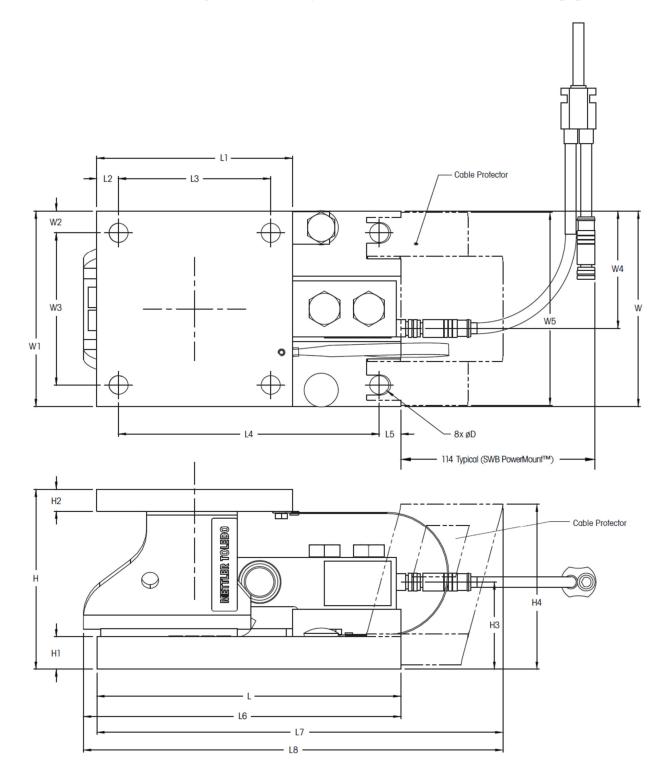
¹⁰ Typical values only. The sum of errors due to combined error and temperature effect on sensitivity comply with the requirements of OIML R60 and NIST HB44.

¹¹⁾ See certificate for complete information.

12) Max. 14 load cells / terminal

¹³ Max. total cable length 90-300m depending on no. of LC and terminal
 ¹⁴ Calculate the scale's minimum increment size by multiplying this value by the square root of the number of load cells. For non Legal-For-Trade Applications





									L	ocation	s and di	mensio	ns									
Size	Capacity	D	Н	HI	H2	H3	H4	L	LI	L2	L3	L4	L5	L6	L7	L8	W	W1	W2	W3	W4	W5
2	220kg - 1.1† (500lb - 2.5klb) 2.2† (5klb)	11.2			12.7 (0.50)	50.9 (2.00) 51.3 (2.02)	96.6 (3.80)		114.4 (4.50)		89.0 (3.5)	152.4 (6.00)	12.7 (0.50)	185.6 (7.31)	_		114.4 (4.50)		12.7 (0.50)			113.0 (4.45)
3	4.4† (10klb)	17.5 (0.69)	136.6 (5.38)		19.1 (0.75)	70.3 (2.77)			152.4 (6.00)			184.2 (7.25)		_	298.0 (11.73)	-		152.4 (6.00)		101.6 (4.00)	92.6 (3.65)	143.0 (5.63)

 $^{\mbox{\tiny 1)}}$ Height when using thermal isolation pad or shock/vibration pad

SWB605 PowerMount™ Weigh Module with Optional Cable Protector Dimensions mm [in]

Order Information SWB605 PowerMount[™] – Weigh Module Including Load Cell

)rder ir	nformation, weigh module a	ssembly			Item No.	
ize	Rated capacity	Description	Class	M	aterial, weigh modu	ıle
Ize	Ruleu cupuchy	Description	Cluss	CS	304	316
			C3 / III M n:5	30090741	30090742	30090743
	220kg / 500lb		C6 / III M n:10	30090753	30090754	30090755
			C10	30096881	30096882	30096883
			C3 / III M n:5	30090744	30090745	30090746
	550kg / 1,250lb		C6 / III M n:10	30090756	30090757	30090758
		Weigh module geoendaly	C10	30096884	30096885	30096886
		Weigh module assembly	C3 / III M n:5	30090747	30090748	30090749
	1100kg / 2,500lb		C6 / III M n:10	30090759	30090760	30090761
			C10	30096887	30096888	30096889
			C3 / III M n:5	30090750	30090751	30090752
	2200kg / 5,000lb		C6 / III M n:10	30090762	30090763	30090764
			C10	30096890	30096891	30096892
		Stabilizer 1)		61046399	61046400	61046401
		Dead stand		61010624	61046402	61946403
	220-2200kg /	Shock/Vibration pad			61005965	
	500-5,000lb	Thermal isolation pad 80 °C			61010620	
		Thermal isolation pad 170 °C			61024642	
		Cable protector			30315554	
	4400kg / 10000lb		C3 / III M n:5	30090765	30090766	30090767
		Weigh module assembly	C6 / III M n:10	30090768	30090769	30090770
		Stabilizer 1)		61046404	61046405	61046406
		Dead stand		61010625	61046407	61046408
	1100kg / 10000k	Shock/Vibration pad			61005938	
	4400kg / 10000lb Thermal isolation pad 80°C	-		61010621		
		Thermal isolation pad 170°C			61037510	
		Cable protector			30315555	

Bolded entries are stocked ¹⁾ 1 or 2 per weigh module.

					Item No.				
				C	able, material / I	ength			
Description	PU/2.5m (8.2ft)	PU/5m (16.4ft)	PU/10m (32.8ft)	PU/15m (49.2ft)	PU/20m (65.6ft)	PU/30m (98.4ft)	PU/50m (164ft)	PU/100m (328ft)	PU/200m (656ft)
Cable kit, 3 load cells	30382994	30382990	30382991	-	-	-	-	-	-
Cable kit, 4 load cells	30382995	30382992	30382993	-	-	-	-	-	-
Load cell Y-Cable	30382975	30382976	30382977	-	-	-	-	-	-
Home run cable	-	30382980	30382981	30382982	30382983	30382984	30382985	30382986	30423113
Extension cable	-	30382987	30382988	-	-	-	-	-	-
CAN termination					30382989				1
Blind plug					30417485				
Cable gland for home run cable with IND780PDX					30095639				

Bolded entries are stocked

Order Information SWB605 PowerMount[™] – Weigh Module without Load Cell

- SafeLock™ allows to install weigh module hardware without load cell to avoid sensor damage

- Use weigh module with dummy load cell for level detection systems

	information, module kit		Item No.			Suitable	load cells	
			Antonial mainh madul	-		Item	No.	
Size	Rated capacity	'	Material, weigh modul	e		Class		Dummy load cell
		CS	304	316	C3 / III M n:5	C6 / III M n:10	C10	Dummy lodd cell
	220kg / 500lb				30450308	30450311	30450314	
2	550kg / 1250lb	61043213	61043222	61046397	30450317	30450320	30450323	68000714
Z	1100kg / 2500lb	*			30450326	30450329	30450332	7
	2200kg / 5000lb	61046636	61046637	61046638	30450335	30450338	30539636	61005963
3	4400kg / 10000lb	61043214	61043223	61046398	30450344	30450347	-	61005964

Bolded entries are stocked

Home Run Cable POWERCELL® SLB615D

Colour	Function
Yellow	Shield
Blue	CAN_L
White	CAN_H
Red	+ V
Black	– V

Full Connectivity

METTLER TOLEDO supplies various data communication interfaces that enable our sensors and instruments to communicate with your PLC, MES, or ERP systems.



METTLER TOLEDO Service

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

Weighing Electronics

METTLER TOLEDO offers a complete family of electronics from simple weighing to application solutions for filling, stock control, batching, formulation, counting, checkweighing.



SWC615 PowerMountTM





Load Cells POWERCELL® load cells have a rocker-pin design that automatically aligns load forces for accurate weighing. These hermetically sealed load cells are rated IP68/IP69K and can be used in all environments. The load cells are easy to inspect or replace.

safety.

Tank Weiahina

SWC615 PowerMount[™] weigh modules offer rugged construction and many features for easy installation and accurate and reliable tank weighing. Included as standard are 360 ° stops and two lift-off

bolts to cope with wind forces, while two vertical down-stops provide additional

Conveyors and Mixers SWC615 PowerMount™ weigh modules are also designed for dynamic-loading applications such as conveyors, mixers, and blenders. They provide 360°

checking for ease of installation and maximum safety. The rocker pin load cell restores the top plate to its ideal position

to maintain accurate, repeatable weight.

Predictive Diagnostics PDX®

Monitor individual load cells for overload, temperature extremes, zero drift, etc. Breach detection warns if the load cell's hermetic seal has been broken. This enables reaction before the system weighs incorrectly or shuts down completely.

Right the First Time

Safe, Accurate, Service Friendly



SWC615 PowerMount™

Right the First Time Know What's Ahead

SWC615 PowerMount[™] features ensure correct scale system installation, right from the start. PowerMount does not compromise on safety – all safety features are provided as standard. The rocker pin design provides the highest level of weighing accuracy. Installation features including SafeLock[™] ensure easy and trouble free installation.

PowerMount features:

- Dual integrated lift-off protection
- Dual vertical safety down-stop
- Full 360° integrated checking
- Ground strap welding protection
- SafeLock[™] Weigh module locked for installation
- SafeLock[™] Load cell protected for installation
- Dual stabilizer option
- Capacity range: 7.5 t 90 t
- POWERCELL[®] load cell
- All load cells with IP68/IP69K and fully stainless steel
- Global approvals standard on each load cell
- Zinc plated or stainless steel mounting hardware
- CalFree[™] Plus: Calibration w/o test weights at your finger tip



SWC615 PowerMount™ Specifications - POWERCELL®

Weigh module	Unit of measure					Specification			
Model No.						SWC615 PowerMount™			
Size			1			2		3A	
Rated capacity (R.C.)	t (klb, nominal)	7.5 (16.5)	15 (33)	22.5 (49.6)	20 (44)	30 (66)	50 (110)	90 (198)	
Max. rated forces 1)									
Max. compressive force, rated	kN (klb)	74 (16.5)	145 (33)	220 (50)	195 (44)	290 (65)	490(110)	880 (198)	
Max. horizontal transverse force, rated longitudinal	kN (klb)		74 (16.5)				100 (22)		
Max. uplift force, rated	kN (klb)		62 (14)			150 (33)		190 (43)	
Max. horizontal force									
(longitudinal) per stabilizer option, rated®	kN (klb)		22 (5)			35 (7.7)		50 (11.2)	
Max. yield forces 2) 4)									
Max. compressive force, yield	kN (klb)	145 (33)	294 (67)	440 (97)	390 (87)	580 (130)	980 (215)	1756 (388)	
Max. horizontal transverse		110 (00)		110 (07)	000 (01)		000 (210)		
force, yield longitudinal	kN (klb)		105 (24)			135 (30)		140 (31)	
Max. uplift force, yield	kN (klb)		85 (19)			200 (45)		265 (60)	
Max. ultimate forces 3) 4)									
Max. compressive force,	LNL (LID)	220 (50)	420 (94)	660 (147)	580 (130)	992 (104)	1470 (202)	2648 (582)	
ultimate	kN (klb)	220 (00)	420 (94)	660 (147)	560 (150)	883 (194)	1470 (323)	2040 (002)	
Max. horizontal transverse	kN (klb)		210 (47)			360 (80)		400 (88)	
force, ultimate longitudinal									
Max. uplift force, ultimate	kN (klb)		200 (45)			390 (88)		485 (109)	
	%A.L./								
Restoring force	mm	2.4	(61)	3.4 (87)		1.8 (46)		1.6 (41)	
Mary tax alata	(/in) ⁵⁾					F (0.0)			
Max. top plate transverse	± mm					± 5 (0.2)			
travel longitudinal ⁷) Weight (including load cell),	(in)					± 5 (0.2)			
nominal	kg (lb)		20 (44)			55 (120)		110 (242)	
Material			eel / 304 stain 16 stainless st		/ Carbon steel / 304 stainless steel				
Finish			ated / electropo electropolished		Zinc plated / electropolished				

 ^b The weigh module is rated for these forces in normal operation, a factor of safety has been applied by METTLER TOLEDO.
 ²⁰ Warning: if loaded statically one time in excess of these forces, the weigh module may yield and need replacing. The max. yield forces do not consider fatigue/cyclic loading and should be approached only in exceptional circumstances.

³ Warning: if loaded statically one time in excess of these forces, the weigh module may break with potential for serious injury and/or property damage.

⁴⁾ Warning: apply a factor of safety appropriate to the application.

% of Applied Load (A.L.) per mm (in) displacement of the top plate (transverse and longitudinal).
 1 or 2 per weigh module. Max. permissible longitudinal force per stabilizer.
 0 with stabilizer.



SLC611D POWERCELL® LOAD CELL Specifications

Load cell		Unit of measure					Specif	ication						
Item No.			30092515	30092516	30092517	42904882	42904883	42904884	42904891	42904892	72238150	72238147		
Model No.			POW	ERCELL® SLC	611D			POWER	CELL® PDX®	SLC820				
Rated capacity (R	.0.)	t (klb, nominal)	7.5 (17)	15 (33)	22.5 (50)	20 (44)	30 ((66)	50 ((110)	90 ((198)		
Min. increment siz	ze, typical 11)	kg (lb)	0.15 (0.33)	0.3 (0.66)	0.45(1)	0.4 (0.88)	0.6	(1.3)	1 (2.2)	1.8	3 (4)		
Zero load output		%R.C.		≤ 0.5					≤ 0.1					
Combined error ^{8) §}	9)	%R.C.		≤ 0.018		≤ 0	018	≤ 0.015	≤ 0.018	≤ 0.015	≤ 0.018	≤ 0.015		
Repeatability error		%A.L.		≤ 0.010		≤ 0	010	≤ 0.008	≤ 0.010	≤ 0.008	≤ 0.010	≤ 0.008		
Creep, 30 minute		%A.L.		≤ 0.015		≤ 0	015	≤ 0.0125	≤ 0.015	≤ 0.0125	≤ 0.015	≤ 0.0125		
Min. dead load ou	utput return	%A.L.		< 0.015		- 0	015	< 0.0105	< 0.015	< 0.0105	< 0.015	< 0.0105		
(DR), 30 min				≤ 0.015		≤ 0.	015	≤ 0.0125	≤ 0.015	≤ 0.0125	≤ 0.015	≤ 0.0125		
	Min. dead load	%R.C./°C	0	0014 (0.000)8)	≤ 0.0028	≤ 0.0025	≤ 0.0013	≤ 0.0018	≤ 0.0013	≤ 0.0014	≤ 0.001		
Temperature	output	(/°F)	0.	0014 (0.000	,0)	(0.0016)	(0.0014)	(0.0007)	(0.001)	× /	· · · · ·	(0.0006)		
effect on	Sensitivity 9)	%A.L./°C (/°F)	≤ 0.001 (0.0006)			< 0.001 (0.0006)			≤ 0.001 (0.0006)	≤ 0.0008 (0.0004)	≤ 0.001 (0.0006)	≤ 0.0008 (0.0004)		
Tomporatura	Compensated		-10 ~	+40 (-14 ~	+104)			-10 ~	+40 (-14 ~	$\begin{array}{c c c c c c c c c c c c c c c c c c c $				
Temperature	Operating	°C (°F)	-40 ~	+55 (-40 ~	+131)			-30 ~	+55 (-22 ~	118 ≤ 0.015 ≤ 0.018 \leq 10 ≤ 0.008 ≤ 0.010 \leq 115 ≤ 0.0125 ≤ 0.015 \leq 115 ≤ 0.0125 ≤ 0.015 \leq 115 ≤ 0.0125 ≤ 0.015 \leq 115 ≤ 0.0125 ≤ 0.013 ≤ 0.0014 \leq 111 (0.0007) (0.0008) (0.001) \leq 115 ≤ 0.0008 ≤ 0.0014 \leq (0.0008) (0.0006) (0.0006) 11 (0.0007) (0.0008) ≤ 0.0014 \leq (0.0006) <				
range	Safe storage	Ī	-40 ~	+80 (-40 ~	+176)			-40 ~	+80 (-40 ~	+176)				
OIML / European	Class			C3		C3	C3	C4	C3	C4	C3	C4		
	nmax			3000		3000	3000	4000	3000	4000	3000	4000		
approval ¹⁰⁾	Vmin	kg (lb)	0.83	1.67	2.5	3.5	4.7	2.4	5.7	4	8.1	6.3		
	Class			IIIL M n:5		IIIL M	IIIL M	-	IIIL M	-	IIIL M	-		
NTEP approval ¹⁰⁾	nmax			5000		10000	10000	-	10000	-	10000	-		
	Vmin	kg (lb)	2.2	4.2	6.3	2.9	4	-	4.9	4.9 – 7.1				
ATEX approval 10)		Cat 2				II 2 G Ex it	IIB T4 Gb / II :	2 D Ex ib IIIC T	130° C Db					
Rating		Cat 3		c IIC T6 Gc; I I 3 D Ex tc III		3	g ex na nc IIC	C T6 Gc / II 3 G	Ex ec nC IIC	T6 Gc / II 3 D E	Ex to IIIC T85°C	C Dc		
IECEx approval 10)				Gb / Ex ib IIIC Gc / Ex nA II tc IIIC T85°C			Ex nA nC I				C T85°C Dc			
	Div. 1 US						1 / CDEFG ; I. 21 / AEx ib / III0							
	Div. 1 Canada					IS / I, II, III /	1 / CDEFG / T4 21 / Ex ib / IIIC	; 1 / Ex ib / I	IB / T4 ; Gb ;					
FM approval ¹⁰⁾	Div. 2 US			CDFG/T6 Ta⊨ -4 vision 2, Grou					-					
	Div.2 Canada		NNI/ULII/2/	Ta = -40°C to CDFG/T6 Ta⊨ -44)℃to+55℃;				-					
UL /cUL approval ¹⁰⁾	Rating		111/1,11,11/2/Pt	30DFG/T6 Ta=-4 _	10 U 10 +00 U			, II, III, Divisi	on 2, Groups	C, D, F, G, T	6			
Supply voltage non-regulated	Typical	V DC	12-2	4 (external s	upply)			12-2	4 (external supply)					
Overvoltage protect	tion	Α		2500					> 80000					
Effective system up	odate rate	Hz	10	00 (with 4 ce	lls)	83 (with 4 cells),	50 (with 6 d	cells), 25 (wi	th 14 cells),	15 (with 24 d	cells)		
Material	Spring element			Stainless stee	9				Stainless steel					
	Туре			welded					Welded					
Protection	IP rating			IP68/IP69K					IP68/IP69K					
	NEMA rating			NEMA 6/6P					NEMA 6/6P					
Deflection @ R.C.,	nominal	mm (in)	0.2 (0.008)	0.37 (0.015)	0.49 (0.019)	0.36 (0.014)	0.51 ((0.02)	0.71 (0.028) 1.02 (0.04)					
Weight, nominal		kg (lb)		1.2 (2.6)			3.0 (6.6)		3.2	(7.0)	7.5 ((16.6)		

[®] Error due to the combined effect of non-linearity and hysteresis.
 [®] Typical values only. The sum of errors due to combined error and temperature effect on sensitivity comply with the requirements of OIML R60 and NIST HB44.
 ^{1®} See certificate for complete information.

¹¹⁾ Calculate the scale's minimum increment size by multiplying this value by the square root of the number of load cells. For non legal-for-trade applications.



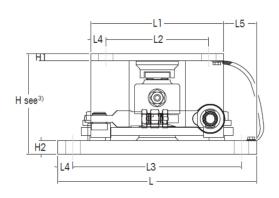


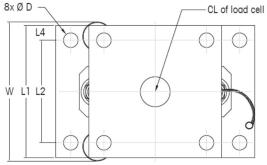


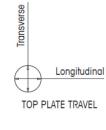
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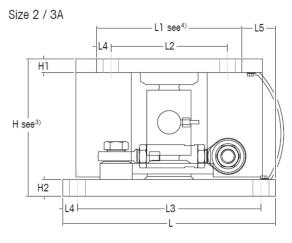
SWC615 PowerMount™ Weigh Module Dimensions mm [in]

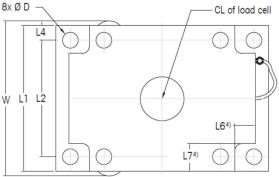












							1	Dimensio	ns and lo	cations							Tan	k leg plate
Size	Capacity	D	Н	HS ²⁾	HP ¹⁾	H1	H2	L4)	- 11	L2	L3	L4	L5	L64)	L74)	W	Thickness	Dimensions
1	7.5, 15, 22.5t	22	152	167	192.4	12	20	300	200	155	255	22.5	50			210	min 25	200 x 200
1	[16.5, 33, 49.6 klb]	[0.87]	[5.98]	[6.57]	[7.57]	[0.47]	[0.79]	[11.8]	[7.87]	[6.1]	[10.04]	[0.89]	[1.97]	-	-	[8.27]	[1]	[7.87 x 7.87]
2	20, 30, 50t	26	235	268	293.4	23	28	365	250	200	315	25	57.5	35	47.5	273	min 50	250 x 250
Z	[44, 66, 110klb]	[1.02]	[9.25]	[10.55]	[11.55]	[0.91]	[1.1]	[14.37]	[9.84]	[7.87]	[12.4]	[0.98]	[2.26]	[1.38]	[1.87]	[10.75]	[2]	[9.84 x 9.84]
ЗA	90t	32	329.5	367.5	392.9	30	33	440	300	235	375	32.5	70	40	52.5	321	min 60	300 x 300
	[198 klb]	[1.26]	[12.97]	[14.47]	[15.47]	[1.18]	[1.30]	[17.32]	[11.81]	[9.25]	[14.76]	[1.28]	[2.76]	[1.57]	[2.07]	[12.63]	[2.4]	[11.81 x 11.81]

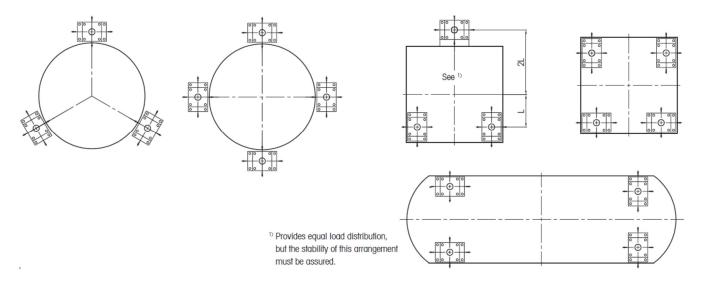
¹⁾ Height when using thermal isolation pad or shock/vibration pad

²⁾ Height when using spacer plate

³⁾ Shipping/Installation height is 2 mm [0.08 inches] taller

⁴⁾ Designed for square tank leg plate above top plate

SWC615 PowerMount[™] Weigh Module Arrangements



Order Information SWC615 PowerMount[™] – Weight Module including Load Cell

)rder	information, weigh module ass	sembly		Item	No.	
	Data da mundita	Description	01	Material, w	eigh module	
ize	Rated capacity	Description	Class	Zinc plated	304	316
	7.5 t / 17 klb			30256336	30256337	30256338
	15 t / 33 klb	Weigh module assembly	C3 / III M n:5	30256339	30256340	30256341
	22.5 t / 50 klb			30256342	30256343	30256344
		Stabilizer 1)		72205444	72205445	72205445
		Spacer plate		72245532	72206153	72247333
		Dead stand		72206154	72206155	-
	7.5 - 22.5 t / 17 - 50 klb	Shock/Vibration pad 2)		72246646	72207262	72247334
		Thermal isolation pad 80 °C 2)		72246647	72207263	72247335
		Thermal isolation pad 170 °C 2)		72246648	72207264	72247336
	20 t / 44 klb			72262440	72262441	
	30 † / 66 klb	Weigh module assembly	C3 / IIIL M n:10	72255118	72255120	
	50 t / 110 klb			72255119	72255121	
		Stabilizer 1)		72248968	72248969	
2		Spacer plate		72249203	72249206	
	20 - 50 t / 44 - 110 klb	Dead stand		72249173	72249174	
	20 - 50 17 44 - 1 10 KID	Shock/Vibration pad 2)		72255072	72255075	
		Thermal isolation pad 80 °C 2)		72255073	72255076	
		Thermal isolation pad 170 °C 2)		72255074	72255077	_
	90 t / 198 klb	Weigh module assembly	C3 / IIIL M n:10	30057238	30057237	
		Stabilizer		72248970	72248971	
		Spacer plate 1)		72249213	72249214	
A	00 t (108 klb	Dead stand		72249175	72249176	
	90 † / 198 klb	Shock/Vibration pad ²⁾	7-	72255078	72255081	
		Thermal isolation pad 80 °C 2)		72255079	72255082	
		Thermal isolation Pad 170 °C 2)		72255080	72255083	

Bolded entries are stocked

1 or 2 per weigh module.
 ²⁾ Includes spacer plate

Order Information SWC615 PowerMount™ Cables

Order information, cables				Item	n No.			
				Cable, mate	erial / length			
Description	PU / 3 m	PU / 5 m	PU / 10 m	PU / 20 m	PU / 30 m	PU / 50 m	PU / 100 m	PU / 150 m
	(10 ft)	(16.4 ft)	(32.8 ft)	(65.5 ft)	(100 ft)	(166 ft)	(333 ft)	(500 ft)
Cable kit, 3 load cells	30302750	30302751	30302752	30302753	-	-	-	-
Cable kit, 4 load cells	30302754	30302755	30302756	30302757	-	-	-	-
Load cell – load cell cable	30302766	30302767	30302768	30302769	-	-	-	-
Home run cable	-	30302758	30302759	30302760	30302761	30302762	30302763	30302764
Braided cable kit, 3 load cells	-	61045291	61045292	-	-	-	-	-
Braided cable kit, 4 load cells	-	61045293	61045294	-	-	-	-	-
Braided home run cable	-	-	61044730	61044731	61044732	610444734	61044739	61044749
Cable extension adapter				3022	20628			
CAN termination load cell				3030	2770			
Blind cap connector load cell				3030	2771			
Cable gland for home rund cable with IND780PDX				3009	95639			
Bolded entries are stocked								

Order Information SWC615 PowerMount™ – Weigh Module without Load Cell

- SafeLock™ allows installation of weigh module hardware without load cell to avoid sensor damage

- Combine weigh module with other load cells (with C4, special cable lengths, etc.)

- Use weigh module with dummy load cell for level detection systems

Order information, weigh module kit		Item No.			Suitable load cells		
Size	Rated capacity	Material, weigh module			Item No.		
					Class		Dummy logd cell
		Zinc Plated	304	316	C3 / IIIL M n:10	C4	Dummy load cell
1	7.5 t / 17 klb	30131985	30131986	30131987	30092515	-	30238196
	15 t / 33 klb				30092516	-	
	22.5 t / 50 klb				30092517	-	
2	20 t / 44 klb	72255116	72255117	-	42904882	-	72255084
	30 t / 66 klb				42904883	42904884	
	50 t / 110 klb				42904891	42904892	
3A	90 t / 198 klb	30069755	30069754	-	72238150	72238147	30085236

Bolded entries are stocked

Full Connectivity

METTLER TOLEDO supplies various data communication interfaces that enable our sensors and instruments to communicate with your PLC, MES, or ERP systems.

EtherNet/IP DeviceNet ControlNet





ModConnect

Weighing Electronics

METTLER TOLEDO offers a complete family of electronics from simple weighing to application solutions for filling, stock control, batching, formulation, counting, checkweighing.



METTLER TOLEDO Service

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



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