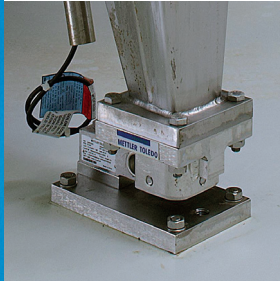


Upgrade to POWERCELL® Technology

Improved Uptime and Accuracy



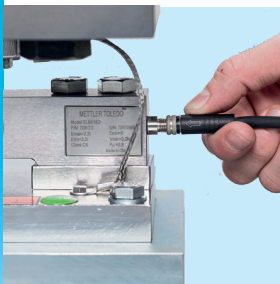
Upgrade Installed Base

Existing weighing installations using FlexMount™ or CenterLign™ weigh modules underneath tanks, silos, hoppers, conveyors or any other customized solutions can be upgraded with POWERCELL® technology. The SLB615D POWERCELL® improves their uptime, functionality and accuracy.



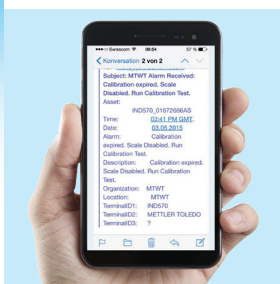
Predictive Diagnostics

The on-board microprocessors inside the POWERCELL® load cell adjust the weighing signal to compensate for environmental changes. That allows accurate weighing regardless of the effects of temperature, linearity, hysteresis and creep.



Fast Installation

POWERCELL® load cells are connected in a daisy-chain network. The IP68/IP69K-protected quick-release connectors make maintenance and installation fast and easy. It also eliminates junction boxes. The entire system design supports the replacement of load cells and cables without labor-intensive recalibration.



Alerts to Mobile Devices

The PowerMount™ technology continuously reads the load-cell signal to verify proper functionality. Operators can be alerted to variances with an email, text message or log file entry, depending on preference. That helps users to avoid poor quality, waste and downtime.



Upgrade Kit to POWERCELL® for installed Weigh Modules

POWERCELL® weighing technology offers high accuracy combined with real-time diagnostics to avoid downtime caused by unnoticed faults. The technology is also available within existing installations using 0958 FlexMount™ or 0958 CenterLign™ weigh modules.

- SLB615D POWERCELL® load cells from 220– 4.400kg substitute the 0745A load cell in 0958 FlexMount™ and 0958 CenterLign™ weigh modules.
- Legal for trade approvals include: OIML: C3, C6, C10 and NTEP: IIIM n:5, III Mn:10
- Hazardous-area approvals: ATEX, FM
- No need for junction boxes increases uptime
- Plug-and-play cables speed up installation and reduce repair time
- CalFree™Plus is available for easy calibration without test weights and future exchange of load cells without re-calibration

SLB615D POWERCELL® Specifications

Parameter	unit of measure	Specification														
Model No.		POWERCELL® SLB615D (5)														
Rated Capacity (R.C.)	kg (lb) nominal	220 (500)	550 (1250)	1100 (2500)	2200 (5000)	4400 (10000)										
External resolution	Counts @ R.C.	220,000	550,000	1,100,000	2,200,000	440,000										
Min. Increment Size, typical	g (lb)	4.4 (0.01)	11 (0.025)	22 (0.05)	44 (0.1)	88 (0.2)										
Zero load Output	%R.C.	<0.1														
Combined Error ^{1) 2)}	%R.C.	C3/III M n:5: ≤0.018 ; C6/III M n:10: ≤ 0.012 ; C10: ≤0.007														
Repeatability Error	%A.L. ³⁾	C3/III M n:5: ≤0.01 ; C6/III M n:10: ≤ 0.005 ; C10: ≤0.003														
Creep, 30 minute	%A.L.	C3/III M n:5: ≤0.017 ; C6/III M n:10: ≤ 0.008 ; C10: ≤0.005														
Min. Dead Load Output Retrun (DR), 30 min	%A.L.	C3/III M n:5: ≤0.017 ; C6/III M n:10: ≤ 0.008 ; C10: ≤0.005														
Temperature Effect on	Min. Dead load	%R.C./°C (./°F)	0.0014 (0.0008)	C3/III M n:5: ≤ 0.0011 (0.0006) / C6/III M n:10: ≤ 0.0007 (0.0004) / C10: ≤ 0.0007 (0.0004)											0.0009 (0.0005)	
	Sensitivity ²⁾	%A.L./°C (./°F)	C3/III M n:5: ≤0.001(0.0006) ; C6/III M n:10: ≤ 0.0005(0.0003) ; C10: ≤0.0003(0.0002)													
Effective System Update Rate (4 load cells)	Hz	40														
Temperature Range	Compensated	-10 to +40 (+14 to +104)														
	Operating	-20 to +65 (-4 to +150)														
	Safe Storage	-40 to +80 (-40 to +176)														
European Cert. No.		R60/2000-CN1-13.01 / NMI TC8489														
OIML / European Approval ⁴⁾	Class	C3	C6	C10	C3	C6	C10	C3	C6	C10	C3	C6	C10	C3	C6	
	nmax	3000	6000	10000	3000	6000	10000	3000	6000	10000	3000	6000	10000	3000	6000	
OIML / European Approval ⁴⁾	vmin	g	20	10	37	25	70	50	150	100	290	250				
	PLC		0.8													
OIML / European Approval ⁴⁾	Humidity Symbol	CH														
	Min. dead load	kg	0													
OIML / European Approval ⁴⁾	Z		3000	600	10000	3000	6000	10000	3000	6000	10000	3000	6000	10000	3000	6000
	Barometric Pressure Effect		None													
NTEP Approval ⁴⁾	Number	13-118														
	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	
NTEP Approval ⁴⁾	nmax	5'000	10'000	-	5'000	10'000	-	5'000	10'000	-	5'000	10'000	-	5'000	10'000	
	vmin	lb	0.05	0.025		0.095	0.065		0.19	0.13		0.38	0.26		0.76	0.65
ATEX Approval ⁴⁾	Min. dead load	lb	0													
	Number. cat. 3		DEKRA 14ATEX0030													
ATEX Approval ⁴⁾	Rating	II 3 G Ex nA IIC T6 Gc / II 3 D Ex tc IIIC T85°C Dc														
	Entity Parameters	Umax = 28V, Imax = 50mA, Pmax = 0.5W (7)														
IECEX Approval ⁴⁾	Rating	Ex nA IIC T6 Gc / Ex ec IIC T6 Gc / Ex tc IIIC T85°C Dc														
	Entity Parameters	Vmax = 28V, Imax = 50mA, Ci = 0.3nF, Li = 0														
FM Approval, USA / Canada ⁴⁾	Number, USA / Canada	3050641 / 3050641C														
	Rating, USA	NI / I, II / 2 / ABCDFG / T6 Ta = 55°C														
FM Approval, USA / Canada ⁴⁾	Rating, Canada	NI / I, II / 2 / ABCDFG / T6 Ta = 55°C / DIP / III / 2 / T6 Ta = 55°C														
	Entity Parameters	Vmax = 28V, Imax = 50mA, Ci = 0.3nF, Li = 0														
FM Approval, USA / Canada ⁴⁾	System Drawing no. USA	30095703														
	System Drawing no. Canada	30095704														
Insulation Resistance @50VDC	MΩ	≥ 2000														
Breakdown Voltage	V AC	≥ 500														
Supply Voltage	Range (nominal)	10-26														
	Non-regulated Typical	24														
Overvoltage Protection	Max. Tested	A														
Warm-up Time from Cold Start		15														
Communications		Controller Area Network (CAN), Encrypted														
Effective System Update Rate (4 load cells)		Can Open														
		40														
ESD rating		8														
Span Stability, typical (peak to peak in 1 min)		15														
Immunity	OIML R60	V/m														
	Spring Element	Stainless Steel														
Material	Enclosure	304 Stainless Steel, Electropolished														
	Connectors	Stainless Steel														
Material	Cable	Polyurethane (PU)														
	Type	Welded														
Protection	IP Rating	IP68, IP69K														
	NEMA Rating	NEMA 6P														
Overload Protection		yes											no			
Load Limit	Safe	150														
	Ultimate	300														
Safe Dynamic Load	%R.C.	70														
Fatigue Life	cycles @ R.C.	> 1,000,000														
Direction of Loading		beam														
Deflection @ R.C., nominal	mm (in)	0.16(0.006)	0.25(0.01)	0.32(0.013)	0.43(0.017)	0.72(0.028)										
Weight	kg (lb)	1 (2.2)			1.3 (2.9)			2.2 (4.8)								
Cable		Polyurethane, 11mm Connector, 21mm Branch Housing (200mm Distance to LC), Req. Conduit ≥12mm (0.5")														
		Polyurethane, 6mm Jacket, 21mm Branch Housing (200mm Distance to LC), 4 Conductors, Internal Shield with Drain Wires, Req. Conduit ≥12mm(0.5")														
Connectors		Quick-Connect														
	Grade	10.9 (Grade 8)														
Mounting Screw	Size/thread	mm (in)														
	Torque, nominal	Nm (ft-lb)											M18x1.5 (3/4-10 UNC)		275 (220)	

1) Error due to the combined effect of non-linearity and hysteresis
 2) 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.
 3) A.L. = Applied Load
 4) See certificate for complete information.
 5) Max: 14 load cells / terminal
 6) Max. total cable length 90-300m depending on no. of LC and Terminal.
 7) / Load Cell
 8) 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

Order Information Load Cell

Rated Capacity	Description	Class	Item number
220kg / 500lb	SLB615D POWERCELL® model no.	C3 / 5,000 NTEP	30450308
		C6 / 10,000 NTEP	30450311
		C10	30450314
550kg / 1,250lb		C3 / 5,000 NTEP	30450317
		C6 / 10,000 NTEP	30450320
		C10	30450323
1100kg / 2,500lb		C3 / 5,000 NTEP	30450326
		C6 / 10,000 NTEP	30450329
		C10	30450332
2200kg / 5,000lb		C3 / 5,000 NTEP	30450335
		C6 / 10,000 NTEP	30450338
		C10	30450341
4400kg / 10000lb	C3 / III M n:5	30450344	
	C6 / III M n:10	30450347	

Bolded entries are stocked

Order Information Upgrade Kit

Description	Replacement for	Item number
POWERCELL® Upgrade Kit 0958CL CS 1.1T	0958 CenterLign™, carbon steel from 220kg to 1,100kg (500lbs - 2.500lbs)	30236170
POWERCELL® Upgrade Kit 0958CL CS 2.2T	0958 CenterLign™, carbon steel for 2,200 kg (5.000lbs)	30236171
POWERCELL® Upgrade Kit 0958CL CS 4.4T	0958 CenterLign™, carbon steel for 4,400kg (10.000lbs)	30236172
POWERCELL® Upgrade Kit 0958CL SS 1.1T	0958 CenterLign™, stainless steel from 220kg to 1,100kg (500lbs - 2.500lbs)	30236173
POWERCELL® Upgrade Kit 0958CL SS 2.2T	0958 CenterLign™, stainless steel for 2,200kg (5.000lbs)	30236174
POWERCELL® Upgrade Kit 0958CL SS 4.4T	0958 CenterLign™, stainless steel for 4,400kg (10.000lbs)	30236175
POWERCELL® Upgrade Kit 0958FM CS 1.1T	0958 FlexMount™, carbon steel from 220kg - 1,100kg (500lbs - 2.500lbs)	30236176
POWERCELL® Upgrade Kit 0958FM CS 2.2T	0958 FlexMount™, carbon steel for 2,200 kg (5.000lbs)	30236177
POWERCELL® Upgrade Kit 0958FM CS 4.4T	0958 FlexMount™, carbon steel for 4,400kg (10.000lbs)	30236178
POWERCELL® Upgrade Kit 0958 FM SS 1.1T	0958 FlexMount™, stainless steel from 220kg - 1,100kg (500lbs - 2.500lbs)	30236179
POWERCELL® Upgrade Kit 0958FM SS 2.2T	0958 FlexMount™, stainless steel for 2,200kg (5.000lbs)	30236180
POWERCELL® Upgrade Kit 0958FM SS 4.4T	0958 FlexMount™, stainless steel for 4,400kg (10.000lbs)	30236181

Bolded entries are stocked



Upgrade kit for 0958 FlexMount™



Upgrade kit for 0958 CenterLign™

Each upgrade kit consists of:

- Load Cell bolts
- Hardened Load Cell Spacer
- Load Pin
- Gasket
- Lubrication Packet
- Upgrade Instructions

Order Information Pre-configured Plug & Play Cables



Load Cell Cable



Home Run Cable



Bus Termination

Description	Cable, Material / Length / Item number						
	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)
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
Extension Cable	-	30382970	30382971	-	-	-	-
CAN Termination	30382989						
Blind Plug	30417485						
Cable Gland for Home Run Cable with IND780PDX	30095639						

Bolded entries are stocked

Home Run Cable SLB615D POWERCELL®

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

Watch the video about Upgrading existing weighing installations under: www.mt.com/ind-wm-upgrade



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, and checkweighing.



Quality certificate ISO 9001
Environment certificate ISO 14001

www.mt.com

Visit for more information

Subject to technical changes.
© 11/2018 Mettler-Toledo AG
Printed in Switzerland MTSI 30246732
MarCom Industrial