



Benefits of 0782 GDAnalog Load Cells for Weighbridges

0782/GD analog load cells are approved for use in vehicle weighing applications, including extremely hazardous locations.

Stainless-Steel Enclosure

Protect against harsh outdoor conditions often present at truck weighing operations.

Global Approvals

Standard global approvals offered for easy procurement and scale-up.

Safe for Hazardous Areas

Trusted in hazardous areas: ATEX Zone 1/2 and 21/22, FM Class I, II, III, and Div 1, IECEx Zone 1/2 and 2/22.

Multiple Capacity Options

Available in capacities of 20 t, 30 t, 50 t, 100 t, 200 t, and 300 t.

Technical Specifications

Material	Stainless steel
Metrology	OIML C3, NTEP IIIL 10,000
Protection Rating	IP68
Lightning Protection	N/A
Model	0782
Load Cell Type	Column compression









Benefits of 0782 GD

Safe Vehicle Weighing

0782 load cell is a great solution for truck, railroad, and other heavy-capacity weighbridge applications. Also available as replacements for cells in an old weighbridge, 0782 can enhance weighing accuracy and performance.

Rocker-Pin Design

Avoid load cell rotation with the smart anti-rotation design of the load cell.

Simple for Retrofit Applications

The familiar design makes retrofitting existing installations simple.

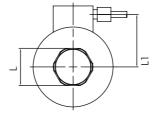
Your Trusted Partner

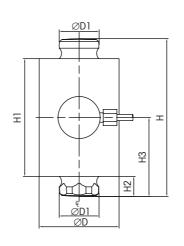
METTLER TOLEDO is a trusted supplier of load cell technology for truck weighing applications worldwide.

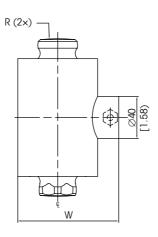
Global Service Expertise

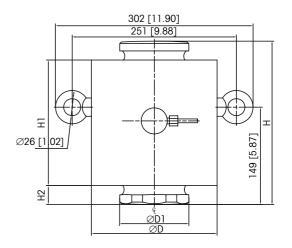
When truck scales are a key part of your operation, you need a service partner you can trust to keep your scale up and running.

0782 GD Load Cell Dimensions: mm (in)









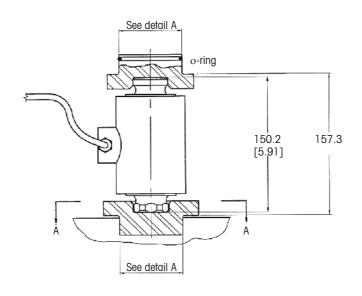
Capacity	Dimensions a	nd Locations								
	D	D1	Н	H1	H2	Н3	L	LI	R	W
20 – 30 † (33 – 66 klb)	76 (2.99)	37.8 (1.49)	150 (5.91)	112 (4.41)	19 (0.75)	75 (2.95)	33.5 (1.40)	50 (1.97)	160 (6.30)	96 (3.78)
50 t (110 klb)	76 (2.99)	37.8 (1.49)	150 (5.91)	112 (4.41)	19 (0.75)	75 (2.95)	33.5 (1.40)	50 (1.97)	305 (12.0)	96 (3.78)
100 † (220 klb)	102 (4.02)	53.8 (2.12)	150 (5.91)	112 (4.41)	19 (0.75)	75 (2.95)	50.6 (1.99)	64 (2.52)	305 (12.0)	123 (4.84)
200 t (440 klb)	158 (6.22)	80 (3.15)	195 (7.68)	145 (5.71)	25 (0.98)	93 (3.66)	75.25 (2.96)	93 (3.66)	400 (5.75)	180 (7.09)
300 t (660 klb)	192 (7.56)	106 (4.17)	250 (9.84)	192 (7.56)	29 (1.14)	128 (5.04)	99.20 (3.91)	110 (4.33)	900 (35.4)	213 (8.39)

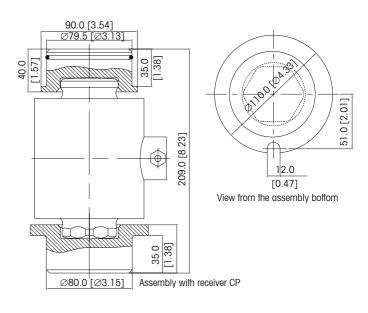


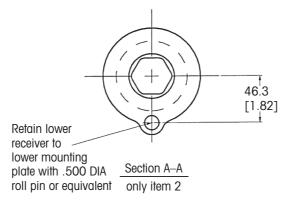
0782 Load Cell Receivers mm (in) 20 – 50 t

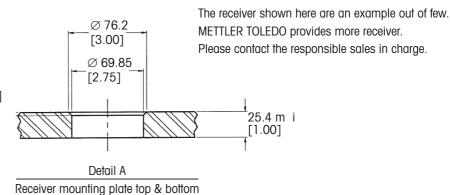
0782 Load Cell Receivers mm (in) 100 t















0782 Load Cell Order Information

		Item No.
20 † (44 klb)	13 m (42.5 ft) cable C3/IIILM10	71201708
30 t (66 klb)	13 m (42.5 ft) cable C3/IIILM10	71201709
50 t (110 klb)	13 m (42.5 ft) cable C3/IIILM10	71201710
100 t (220 klb)	13 m (42.5 ft) cable C3/IIILM10	71201711
200 t (441 klb)	20 m (66 ft) cable	71210093
300 t (661 klb)	30 m (98 ft) cable	71210169
	30 t (66 klb) 50 t (110 klb) 100 t (220 klb) 200 t (441 klb)	30 t (66 klb) 13 m (42.5 ft) cable C3/IIILM10 50 t (110 klb) 13 m (42.5 ft) cable C3/IIILM10 100 t (220 klb) 13 m (42.5 ft) cable C3/IIILM10 200 t (441 klb) 20 m (66 ft) cable

0782 Load Cell Cable Colors

Color	Function
Green	+ Excitation
Black	Excitation
White	+ Signal
Red	— Signal
Yellow	+ Sense
Blue	- Sense
Yellow (long)	Shield

Full Connectivity

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













Global Approvals

The 0782 is provided with all listed approvals — no need to think about options and additional charges. Simplify the conduct of global business, order processing, and service-part stocking.











Parameter		Unit of Measure Sp	ecification						
Rated Capacity (R.C.)		t (klb, nominal)	20 (44)	200 (441)	300 (661)				
Sensitivity at R.C.		mV/V @ R.C.							
Zero load output		%R.C.							
Combined error* %R.C.			≤ (0.018		≤ 0.05	≤ 0.06		
Repeatability error		%A.L.**		≤	0.01		≤ (0.02	
Creep. 30 minute		%A.L.		≤ 0	.0167		≤ 0.03	≤ 0.04	
Min. dead load output ret	urn (DR), 30 min	%A.L.		≤ 0	.0167		≤ 0.03	≤ 0.04	
Temperature Effect on	Min. dead load output	%R.C./°C (/°F)			≤ 0.002	2 (0.001)			
Minimum Dead Load Output	Sensitivity*	%A.L./°C (/°F)		≤ 0.000	9 (0.0005)		≤ 0.002	2 (0.001)	
Temperature Range	Compensated	°C (°F) —10 to +40 (+14 to +104)							
	Operating	°C (°F)							
	Safe Storage	°C (°F) -40 to +80 (-40 to +176)							
OIML/European	OIML Cert. No.								
Approval***	European Cert. No.								
	Class								
	n _{max}								
	Υ			-	_				
	PLC	0.7							
	Humidity symbol								
	Min. dead load	kg (lb)		0	(0)				
	Z			3	000				

^{*} 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.

^{**} A.L = Applied Load

^{***} See certificate for complete information

Parameter		Unit of Measure	Specification							
Rated Capacity (R.C.)		t (klb, nominal)	20 (44)	30 (66)	50 (110)	100 (220)	200 (441)	300 (661)		
NTEP Approval*	Number			01	-004					
	Class			III	LM					
	n _{max} (HB44)			10),000					
	V _{min} (HB44)	kg (lb)	1.4 (3.0)	2.1 (4.5)	3.5 (7.5)	7.0 (15.0)				
	Min. Dead Load	kg (lb)								
ATEX Approval*	Number, cat. 2				KEMA 02	2ATEX1249 X				
	Rating				II 2 G Ex	ib IIC T4T6				
	Entity parameters				II 2 D Ex ibD	21 IP68 T60 °C				
	Number, cat. 3				Ui = 25V, Ii = 600mA, Pi = 0.57-	-1.25W, Ci = 2.6–6nF, Li = 13–30µ	ıH			
	Rating				DEKRA 19	9ATEX0039 X				
	Entity parameters			II 3 G Ex ic IIC	T6T4 Gc ; II 3 G Ex nA IIC T6 G	c; II 3 G Ex ec IIC T6 Gc; II 3 D Ex	tc IIIC T60°C Dc			
IECEx Approval*	Number		Ui = 25V, Ii = 600mA, Pi = 0.57–1.25W, Ci = 2.6–6nF, Li = 13–30μH							
	Rating	3013511/3028342C								
	Entity parameters	IS / I, II, III / 1 / ABCDEFG/T4 Ta = -40°C to +50°C								
Factory mutual approval*	Number, USA/Canada	NI / I,II,III / 2 / ABCDFG / T4 $Ta = -40$ °C to $+50$ °C								
	Rating, USA	IS / I,II,III / 1 / ABCDEFG / T4 Ta = -40° C to $+50^{\circ}$ C ; NI / I / 2 / ABDC / T4 Ta = $.40$ C to $+50^{\circ}$ C DIP/II,III/2/FG								
		Class I, Division 1, Groups A, B, C and D; Class II, Groups E, F and G; Class III								
	Rating, Canada	cFM V _{max} = 20V, I _{max} = 600mA, Pi = 1.25W								
		CSA NI/I/2/ABCD/T4 ; DIP/II,III/2/FG								
	Entity parameters	V _{max} = 20V, I _{max} = 600mA, Pi = 1.25W								
					Ci = 6nF, Li = 26.5μH					
	System drawing No	142730								
Excitation voltage	Recommended	V AC/DC			5	~ 15				
	Max.	20								

^{*} See certificate for complete information

Parameter		Unit of Measure	Specification						
Rated Capacity (R.C.)		t (klb, nominal)	20 (44)	30 (66)	50 (110)	100 (220)	200 (441)	300 (661)	
Terminal resistance	Excitation	Ω			1,150) ± 25			
	Output				1,00	00 ± 3			
Insulation resistance @5	OVDC	ΜΩ			> 5	,000			
Breakdown voltage		V AC	/ AC > 500						
Material	Spring Element				Stainle	ess steel			
	Enclosure				Stainle	ess steel			
	Cable Entry Fittings				Stainle	ess steel			
	Cable				Р	VC			
Protection	Туре				We	elded			
	IP Rating	IP68 & IP69k							
	NEMA rating	NEMA 6/6P							
Load Limit	Safe	%R.C. 125							
	Ultimate	%R.C.			3	00			
Safe Dynamic Load		%R.C.	%R.C. 70						
atigue Life		cycles @R.C.			> 1,00	00,000			
Direction of Loading					Comp	ression			
Restoring force**		%A.L./mm (/in)	0.8 (19)		2 (52)		1.6 (40)	2.5 (63)	
Max. horizontal travel***		± mm (in)		4 (0.16)		5 (0.20)	6 (0	0.24)	
Deflection @ R.C., nomin	al	mm (in)	0.25 (0.010)	0.27 (0.011)	0.27 (0.011)	0.38 (0.015)	0.54 (0.021)	0.57 (0.023)	
Weight, nominal		kg (lb)	2.8 (6.2)	3 (6.6)	3.3 (7.3)	4.5 (9.9)	12.5 (27.6)	21.7 (48)	
Cable	Length	m (ft)	13 (42.5) 20 (66)					30 (98)	
	Diameter	mm (in) 5.8 (0.23)							
Barometric pressure effec	ct on zero load output	kg/kPa (lb/in.Hg)	3 (6.6)	4.5 (9.9)	7.5 (16.5)	15 (33)	30 (66)	45 (99)	

^{*}Testing by Lightning Technologies (NTS, Inc.) with Lightning Protection Kit. Patents pending, POWERCELL® is a trademark of METTLER TOLEDO.

** % of applied load (A.L.) per mm (in) displacement of the top button relative to the bottom button

^{***} Maximum horizontal displacement of the top button relative to the bottom button

Weighbridge Service Solutions

Tailored to Fit Your Needs

METTLER TOLEDO Service delivers resources to enhance your efficiency, performance, and productivity. Explore our service offerings below or reach out to your local METTLER TOLEDO representative to find the best fit for you.



Warranty Coverage

All warranties are not created equal. Coverage can vary greatly from one supplier to the next. It is critical to ask about parts, labor, travel, calibration, environmental protection, stipulations, and more when exploring various warranty offerings.



Performance Upgrades

Load cells, indicators, peripherals, and software upgrades enhance the accuracy, reliability, and functionality of your truck scale beyond its current capabilities. With POWERCELL® upgrade and conversion kits, you can protect profitability and extend the life of your asset, all at a fraction of the cost of a new scale.



Professional Installation

Establish full confidence in your equipment from day one. Our expert technicians execute installation and testing, full system setup and calibration, setup of standard operating parameters, and user and maintenance familiarization. Simplify compliance with site, regulatory, and quality requirements.



Asset Maintenance

Regular maintenance enables reliable performance, compliance, and budget control. With insight into asset performance, you can minimize unplanned downtime and maintenance costs. Extend asset life with calibration, powerwashing, replacement of worn parts, and lubricating of the load cells and receivers.



Care Packages

Care Packages keep your operation running like clockwork.
Crafted to cater to your specific needs, our packages provide preventive maintenance, replacement parts, and flexible support options.