Globally Approved

for Accuracy and Safety



Applications

0743 is ideal for floor scales, tank and hopper scales in process industries. It is constructed of stainless steel which provides excellent corrosion protection. The full set of approvals makes it the right choice for your application.



Tank Weighing

The capacity range from 9t to 20.4t is ideal for mid size tank and hopper weighing in most demanding applications.





Hermetically Sealed

The stainless steel cups are welded in place to create a hermetic seal to prevent moisture from entering the interior of the load cell and deteriorating the weighing performance.

0743 High Capacity Beam Load Cell

The 0743 beam load cell features:

- OIML C3, and NTEP ClassIIIM 5000d approvals
- ATEX Zone1/2 and 21/22 approvals
- FM Class I,II,III Div 1&2 approvals
- Stainless steel
- Hermetically sealed design
- IP68 protection class

Every 0743 comes with all the approvals listed. The 0743 is a stainless beam load cell designed for harsh and hazardous environments specifically for the process industry. 0743 is approved for use in various applications in Europe, Asia, America and almost everywhere else in the world. If an approval is required, the 0743 probably already complies.



0743 Load Cell Specifications

Parameter		unit of measure	Specification							
Model No:		1	0743							
Rated Capacity (R.C.)		t nominal (lb)	9.07 (20000)	13.6 (30000)	20.4 (45000)					
Rated Output		mV/V @R.C.		2 ± 0.005						
ero load Output Combined Error ^{1) 2)}		%R.C.		≤ 1.5						
		%R.C. %A.L. ³⁾	≤ 0.018							
Repeatability Error			≤ 0.01							
Creep, 30 minute	(DD) 20 main	%A.L.	≤ 0.0167							
Min. Dead Load Output Return				≤ 0.0167						
emperature Effect on	Min Dead load Output Sensitivity 2)	%R.C./°C (/°F) %A.L./°C (/°F)		≤ 0.002 (0.001)						
	Compensated		≤ 0.0009 (0.0005) -10 to +40 (+14 to +104)							
Temperature Range	Operating	°C (°F)								
	Safe Storage	°C (°F)	-20 to +65 (-4 to +150) -40 ~ +80 (-40 ~ +176)							
	OIML Cert. No.	0(1)								
	European Cert. No.	+	R60/1991-NL-97.31 NMi TC2977							
	Class	+	C3							
	Nmax		3000							
OIML / European Approval 4)	Y		6000							
	PLC		0.7							
	Humidity Symbol	+	0.7 none							
	Min. dead load	kg (lb)		50 (110)	100 (220)					
	Number		NTEP 88-008							
	Class	+		III M						
ITEP Approval ²⁾	Nmax	+		5000						
: Antonia ; m:	Vmin	kg (lb)	1.3 (2.8)	1.9 (4.2)	2.9 (6.4)					
	Min. dead load	kg (lb)	(2.0)	90 (200)	(0)					
	Number, Category 2	1 3 1 7		KEMA 03ATEX1069 (-40°C ~ +50°C)						
	Number, Category 3			KEMA 03ATEX1070 (-40°C ~ +50°C)						
			II 2 G Ex ia IIC T4							
TEV A	Ratings		II 2 D Ex tD A21 IP6X T100°C							
TEX Approval ⁴⁾			II 3 G Ex nA II T4							
	<u> </u>		II 3 G Ex nL IIC T4							
			II 3 D Ex tD A22 IP6X T100°C							
	Entity Parameters		Ui/Un=25V, Ii=600mA, Pi=1.25W, Ci=5nF, Li=30µН							
	Number		3005885							
				IS / I,II,III / 1 / ABCDEFG /T4						
actory Mutual	Rating		NI / I / 2 / ABCD / T6							
Approval ⁴⁾			S / II,III / 2 / FG / T6							
	Entity Parameters		Vmax=25V, Imax=600mA, Pi=1.25W, Ci=0, Li=29uH							
	System Drawing No		158574R							
Sysitation Voltage	Recommended	V AC/DC								
xcitation Voltage	Maximum	V AC/DC		20						
erminal Resistance	Excitation	Ω		380±20	2200 ± 100					
ai Rooioialloo	Output	Ω		350 ± 2	2000 ± 20					
sulation Resistance @50VDC		MΩ		≥ 5000						
reakdown Voltage		V AC	> 500							
	Spring Element			17-4PH Stainless						
Material	Enclosures		304 Stainless							
	Cable entry fitting	1	304 Stainless							
	Cable	1		PU						
	Туре			welded covers						
Protection	IP Rating	1		IP 68						
	NEMA Rating	1 0/20		NEMA 6/6P						
Load Limit	Safe	%R.C.		150						
Ultimate		%R.C.	300							
afe Side Load 5)		%R.C.		100						
afe Dynamic Load		%R.C.		70						
atigue Life		cycles @R.C.		>1,000,000						
Direction of Loading		and the		beam	1.05/0.005					
Deflection @ R.C., nominal		mm (in)		0.91 (0.036)	1.65(0.065)					
Weight Carlot Leagth		kg (lb)	7.0 (15.5) 11.5 (25.5)							
able Length	lava I and Outs at	m (ff)		4.5, 9.1, 18.2 (15, 30, 60)						
Barometric Pressure Effect on Zero Load Output		kg/kPa (lb/in.Hg)		none						
	Grade	and the		8.8 (Grade 5)	H00 03 374 3 1710					
Mounting Screw	Size	mm (in)		M24 (1-8 UNC)	M30 81-1/4-7 UNC)					
	Engaged Length Torque, nominal	mm (in)		-	1000 (1000)					
	toratio nominal	N.m (ff-lb)		600 (475)	1200 (1000)					

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

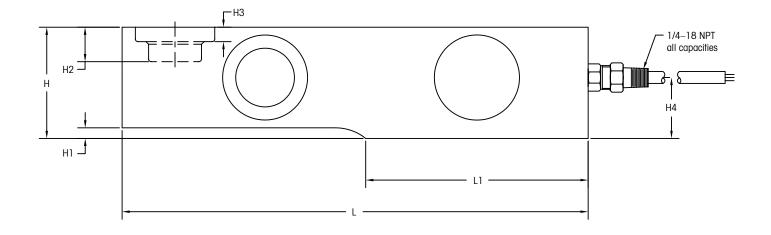
³⁾ A.L. = Applied Load

⁴⁾ See certificate for complete information.

⁵⁾ Protect mounting screws from shear

0743 Load Cell Dimensional Drawings

Capacity	Dimensions and Locations																
	D (2x)	D1	D2	Н	H1	H2	H3	H4	L	L1	L2	L3	L4	L5	W	W1	W2 (2x)
9072-13608 kg	27.0	47.6	31.8	66.7	6.4	20.6	8.6	36.5	279.4	133.4	222.3	82.6	25.4	31.8	60.4	7.9	22.2
[20,000-30,000 lb]	[1.06]	[1.88]	[1.25]	[2.36]	[0.25]	[0.81]	[0.34]	[1.44]	[11.00]	[5.25]	[8.75]	[3.25]	[1.00]	[1.25]	[2.38]	[0.31]	[0.88]
20412 kg	33.3	54.0	38.1	82.6	12.7	24.2	9.5	47.6	317.5	152.4	247.7	88.9	31.8	34.9	69.9	10.9	25.4
[45,000 lb]	[1.31]	[2.13]	[1.50]	[3.25]	[0.50]	[0.95]	[0.38]	[1.87]	[12.50]	[6.00]	[9.75]	[3.50]	[1.25]	[1.38]	[2.75]	[0.43]	[1.00]



0743 Load Cell Order Information

Description	Item No.
LC 743 9t 15ft C3/III5M 20,000lb	71208065
LC 743 9t 30ft C3/III5M 20,000lb	71208066
LC 743 9t 60ft C3/III5M 20,000lb	71208067
LC 743 13.6t 15ft C3/III5M 30,000lb	71208068
LC 743 13.6t 30ft C3/III5M 30,000lb	71208069
LC 743 13.6t 60ft C3/III5M 30,000lb	71208070
LC 743 20.4t 15ft C3/III5M 45,000lb	71208071
LC 743 20.4t 30ft C3/III5M 45,000lb	71208072
LC 743 20.4t 60ft C3/III5M 45,000lb	71208073

Bolded entries are stocked

0743 Load Cell Cable Colours

Colour	Function
Green	+ Excitation
Black	Excitation
White	+ Signal
Red	— Signal
Yellow	Shield

Full Connectivity

Our sensors and instruments are professional communicators. METTLER TOLEDO supplies you with various data communication interfaces that allow you to communicate with your PLCs, MES or ERP systems.













Global Approvals

The 0743 is provided with all listed approvals. No need to think about options and additional charges. Simplifies the conduct of global business, order processing and service-part stocking.









ServiceXXL Tailored Services

Worldwide Services

Use METTLER TOLEDO service including fast parts availability from our local supply or one of our logistics centers in Europe, Asia and America. Trained technicians can assist in professional service, installation and approval worldwide.



Weighing Electronics

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



Quality certificate ISO 9001 Environment certificate ISO 14001

Subject to technical changes.
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