

HM Load Cell

The HM high capacity, compression load cell is available in alloy or stainless steel and capacities from 50t to 1000t. Its ultra robust design provides a highly effective transducer for high impact, high load and side load applications in aggressive environments.

The HM is available with ATEX, CENELEC and NEPSI hazardous area certification and is complimented by a complete range of loading devices such as the silo mounting incorporating seismic restriction and anti-overturning as shown below.



Technical specifications

Capacities	50, 100, 120*, 200, 250*, 350, 500, 800, 1000 tonne
Total Error	0.1%
Safe Overload	150% of capacity
Ultimate Overload	300% of capacity
Rated Output	1.6 mV per volt - rationalised
Excitation Voltage	10 volts (rec.) 15 volts (max.)
Input Impedance	375 & 750 ohms +/- 10
Output Impedance	375 & 705 ohms +/- 10
Environmental Protection	IP 67
Cable Length	5 meter standard

Options:

- Bespoke dimensions
- Submersible and permanent subsea
- Hazardous Area (ATEX Approved)
- Plug and Socket
- Dual Gauged
- 4-20mA Internal Amplifier



Example of an anti lift-Seismic capable mount

HM Load Cell

Accuracy	HMA	HMB	
Total error*	0.10%	0.25%	of rated output
Creep (30 mins)	0.05%	0.10%	
Non-linearity	0.10%	0.25%	
Hysteresis	0.05%	0.15%	
Non-repeatability	0.025%	0.05%	
Temperature			
Temp effect on zero	0.005	0.01	%/°C
Temp effect on span	0.002	0.002	%/°C
Compensated range	-20 to +50		°C
Safe operating range	-25 to +100		°C
Electrical			
	≤350t	≥500t	
Input impedance	375 ± 10	750 ± 10	Ω
Output impedance	375 ± 0.5	750 ± 0.5	Ω
Zero balance	0.5%		of full load output
Excitation	5 to 15		V dc or ac
Rated output	A ± 0.1%, B ± 0.25%		mV/V
Insulation	>1000		M Ω
Cable colour code	Red (+) input Blue (-) input Yellow (+) output Green (-) output		
Hazardous Certification	ATEX, NEPSI, CENELEC		II 1G Ex ia IIC T6
Mechanical			
Sealing	IP67		

Information is subject to change without prior notification

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