

## HM COMPRESSION LOAD CELL

The HM high capacity compression load cell is available in alloy or stainless steel and capacities from 50t to 1000t. Its high accuracy and ultra robust design combined with high impact capability make this cell ideal for use in aggressive environments – commonly used for arduous heavy lift, Centre of gravity and weighing applications. A range of standard options are available such as hazardous area rated (EX), Safety Integrity Level rated (SIL) and wireless as well as specials for subsea, high temperature and bespoke applications.

**Capacities 50, 100, 120\*, 200, 250\*, 350, 500, 800, 1000 tonne**



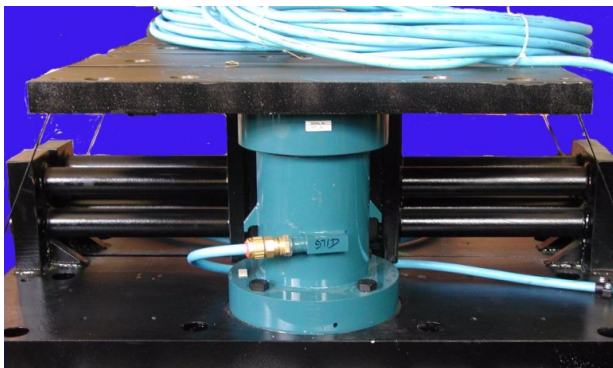
**Rugged | Accurate | Compact**

### Technical Overview (Cabled Version)

Total Error	0.1%
Safe Overload	150% of capacity
Ultimate Overload	300% of capacity
Ingress Protection	IP 67
Cable Length	5 meter standard

### Options:

- Bespoke dimensions
- Submersible and permanent subsea
- Hazardous Area (ATEX/IECex Approved)
- 4-20mA or RS485 Modbus output
- Wireless 2.4GHz
- Plug and Socket
- Dual redundant Gauged
- 4-20mA Internal Amplifier



*Example of an anti lift Seismic capable mount*



## Technical

<b>Accuracy</b>	<b>HMA</b>	<b>HMB</b>	
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%	
<b>Temperature</b>			
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
<b>Electrical</b>			
	≤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 Intrinsically safe EX ia or Explosion proof Exd	ATEX, NEPSI, CENELEC, IECEX		II 1G Ex ia IIC T6 II 2G Ex db IIC T6 gb
Wireless Option	2.4GHz		
Safety Integrity Level	SIL 2		
<b>Mechanical</b>			
Sealing	IP67		

Information is subject to change without prior notification.

