

Digital Load Cells

Load cells, instrumentation and communications modules; these are all designed to work together to make your weight based process control systems simple to implement in your most demanding applications.

Available mounting plates and load checking hardware makes these load cells easy to incorporate into almost any design.

We offer a series of hygienic load cells and base plates for clean room environments. Fasteners and their threads are not exposed to the possibility of contamination.

Load cell cables are field repairable or replaceable without re-calibration of the weighing system; even if you change the length. Cables are RG58 coaxial with BNC connectors and can be up to 100m (325-ft) long per load cell. No longer will you need to connect "fiddly" little wires in the field. Cables are available with a variety of coverings.

Display screens and instrumentation are available in a variety of configurations and enclosure types. If you do not need a display we can provide "blind" instruments to embed inside your control panels.

No matter if you are working with a single load cell or with multiple load cell system, you have a choice of reading a summed signal, or each individual load cell in the system. Set the desired output type during your setup routine. This also means you could have 4 separate scales being input through the same communication module.

Imagine the cost advantage of multiple load cell inputs to a single communication port.



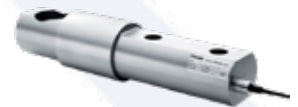
Single Point



Bending Beam



Compression



HD Beam



Hygienic Single Point Load Cell



HD Compression



Weighing Terminal



Ethernet, DeviceNet, ProfiBus, ProfiNet and Serial interfaces available



APEC

Automated Process Equipment Corporation

PROCESSING THE INGREDIENTS FOR SUCCESS

LOAD CELLS SPECIFICATIONS

MODEL NUMBER	SPSX	BL	CL and CM	BM 70 and BM80	CH
Load cell output	Digital – RS485	Digital – RS485	Digital – RS485	Digital – RS485	Digital – RS485
Capacities (kg and tonne)	2kg to 250kg	5kg to 1000kg	50kg – 25000kg	1000kg-7000kg	100 – 500 tonne
Capacities (lb. and tons)	5-lb to 550-lbs	10-lb to 2200-lb	110-lb to 55,000-lb	2200-lb to 15400-lb	110 ton to 550 ton
Load cell safe overload % of FS	300 to 1000%	300 to 1000%	200 to 500%	300 to 1000%	Up to 400%
Load cell safe side load % of FS	500 to 2000%	500 to 2000%	300 to 1000%	500 to 1000%	Up to 500%
Load cell material	17-4ph and 316 Stainless	17-4ph and 316 Stainless	17-4ph and 316 Stainless	17-4ph and 316 Stainless	17-4ph and 316 Stainless
Standard accuracy ranges (% of full scale)	0.025% and 0.015%	0.1%, 0.05% and 0.025%	0.1%, 0.05% and 0.025%	0.25% and 0.1%	0.25%
Enhance accuracy available	YES	YES	YES	YES	YES
Repeatability	Up to 0.005% of Emax	Up to 0.01% of Emax	Up to 0.012% of Emax	Up to 0.01% of Emax	Up to 0.06% of Emax
Deflection at max load	0.1mm	0.1mm	0.2mm	0.1mm	0.1mm
Hermetically sealed – welded	YES, IP68	YES, IP68	YES, IP68	YES, IP68	YES, IP68
ATEX approved – Hazardous area	YES Zone 1,2,21 and 22	YES Zone 1,2,21 and 22	YES Zone 1,2,21 and 22	YES Zone 1,2,21 and 22	YES Zone 1,2,21 and 22
ATEX MODEL NUMBER	SPSX-Ex	BL-Ex	CL-Ex and CM-Ex	BM-Ex	CH-Ex
Temperature Range -50°C to 70°C	YES 100°C w/ Teflon cable	YES 100°C w/ Teflon cable	YES 100°C w/ Teflon cable	YES 100°C w/ Teflon cable	YES 100°C w/ Teflon cable
Field replaceable cable	YES, no recalibration	YES, no recalibration	YES, no recalibration	YES, no recalibration	YES, no recalibration
Maximum cable length	325-ft (100m)	325-ft (100m)	325-ft (100m)	325-ft (100m)	325-ft (100m)
Cable type	Co-axial, with BNC connector	Co-axial, with BNC connector	Co-axial, with BNC connector	Co-axial, with BNC connector	Co-axial, with BNC connector
Load and Base plates	Optional	Optional	Optional	Optional	Optional
Load and Base plate drawings	Available at No Charge	Available at No Charge	Available at No Charge	Available at No Charge	Available at No Charge
Material for load and base plates	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Patented	YES	YES	YES	YES	YES
OIML Approved	C1 to C6	C1 to C3	C1 to C3	C1 to C3	C1 to C3
EHEDG* Compliant Design	YES	YES	YES	–	–
Specials available	YES	YES	YES	YES	YES
Profile Height – Maximum sizes Load cells w/ mounting hardware (except CH 6000)	118mm L x 49mm W 75mm H	190mm L x 50mm W 80mm H	96mm Ø x 65mm H CL 124mmØ x 75mm H CM	395mm L x 79mm W 89mm H	245mmØ x 150mm H (without plates)



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