

## VMC LOAD CELLS



Model Type	VLC-100 / VLC-100S Shearbeam	VLC-100T Shearbeam (Temperature)	VLC-100H / VLC-100SH Shearbeam Hermetically Sealed	VLC-101 Double Ended Shearbeam	VLC-102 Double Ended Shearbeam	VLC-106 Cantilever
<b>Capacity</b>	250, 500 lb 1k, 2k, 2.5k, 4k, 5k(S), 5klb 10k, 15k, 20klb	2k, 2.5k, 3k, 4k, 5k, 10k, 20klb 2.5T, 3, 5T, 10T	1k, 2.5k, 4k, 5k, 10klb	1k, 2.5k, 5k, 10klb 15k, 20k, 25k, 50klb	10k, 25k, 40k, 50klb 75k, 125k, 150k, 200klb	10, 20, 30, 50, 100, 200 kg
<b>Specifications</b>						
Rated Output	3mV/V ± 0.25%	3mV/V ± 0.25%	2mV/V ± 0.25%	3mV/V ± 0.25%	3mV/V ± 0.25%	2mV/V ± 0.1%
Non-linearity	0.03% F.S.	0.10% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.
Hysteresis	0.03% F.S. (VLC-100) 0.05% F.S. (VLC-100S)	0.10% F.S.	0.03% F.S. (VLC-100H) 0.05% F.S. (VLC-100SH)	0.03% F.S.	0.03% F.S.	0.03% F.S.
Non-repeatability	0.02% F.S.	0.05% F.S.	0.02% F.S.	0.02% F.S.	0.02% F.S.	0.02% F.S.
Creep (in 1 hr)	0.03% F.S.	0.10% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.
Zero balance	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.
Temperature effect span	15PPM /°C of Applied Load	50PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load
Temperature effect zero	26PPM /°C of Applied Load	100PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load
Operating temperature range	-20°C ~ +60°C	-196°C ~ +250°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C
Compensated temperature range	-10°C ~ +40°C	0°C ~ +250°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C
Input resistance	385 ± 15Ω	380 ± 30Ω	385 ± 15Ω	770 ± 40Ω	770 ± 40Ω	385 ± 15Ω
Output resistance	350 ± 3Ω	350 ± 3Ω	350 ± 3Ω	700 ± 5Ω	700 ± 5Ω	350 ± 3Ω
Safe overload	150% F.S.	150% F.S.	150% F.S.	150% F.S.	150% F.S.	150% F.S.
Ultimate overload	300% F.S.	300% F.S.	300% F.S.	300% F.S.	300% F.S.	300% F.S.
Excitation voltage	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC
Maximum excitation voltage	15VAC/DC	15VAC/DC	15VAC/DC	30VAC/DC	30VAC/DC	15VAC/DC
Insulation resistance	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ
Environmental protection	IP67	IP67	IP68	IP67	IP67	IP68
Material	Alloy Tool Steel (VLC-100) Stainless Steel (VLC-100S)	Alloy Tool Steel	Alloy Tool Steel (VLC-100H) Stainless Steel (VLC-100SH)	Alloy Tool Steel	Alloy Tool Steel	Alloy Tool Steel
Cable	4 Color Shield Cable 20 FT	4 Color Shield Cable 20 FT	4 Color Shield Cable 20 FT	4 Color Shield Cable 50 FT	4 Color Shield Cable 50 FT	4 Color Shield Cable 20 FT
<b>Applications</b>	Low profile platform scales Pallet scales Process weighing Tank weighing Hopper weighing	Low profile platform scales Pallet scales Process weighing Tank weighing Hopper weighing	Low profile platform scales Pallet scales Process weighing Tank weighing Hopper weighing	Tank, bin, silo Batching, blending, Mixing system	Tank, bin, silo Batching, blending, Mixing system	Platform scales Tank weighing Hopper weighing
<b>Wiring</b>						
Red	INPUT (+)	INPUT (+)	INPUT (+)	INPUT (+)	INPUT (+)	INPUT (+)
Black	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)
Green	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)
White	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)
Blue						
Yellow						
<b>Recommended max. platform size</b>						
<b>Compatible Models</b>	<b>VLC-100</b> Rice Lake RL35023 Sensortronics 65023 Celtron SQB <b>VLC-110S</b> Rice Lake RL39123 Sensortronics 65023S Revere 9123			Rice Lake RL75016 Sensortronics 65016 Revere 5203	Rice Lake RL75058 Sensortronics 65058 Tedeia 4158	HBM Z6 Tedeia 355 Revere SHB

**VMC LOAD CELLS**



Model Type	VLC-110 / VLC-110S 'S' Type	VLC-120 Compression	VLC-121 Compression Double-Ended	VLC-123 Compression	VLC-125 Compression	VLC-127 Compression
Capacity	50, 100, 150, 250, 500, 750 lb 1k, 1.5k, 2k, 3k, 5k, 10klb 15k, 20klb	5k, 10k, 25k, 50k, 100klb	10T, 25T, 30T, 50T	15T, 20T, 25T, 30T	24T	30T
<b>Specifications</b>						
Rated Output	2.95~3.05mV/V	4mV/V ± 0.25%	2mV/V ± 0.1%	2mV/V ± 0.1%	1.8mV/V ± 0.1%	2mV/V ± 0.1%
Non-linearity	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.02% F.S.	0.03% F.S.
Hysteresis	0.03% F.S. (VLC-110) 0.05% F.S. (VLC-110S)	0.05% F.S.	0.03% F.S.	0.03% F.S.	0.02% F.S.	0.03% F.S.
Non-repeatability	0.02% F.S.	0.02% F.S.	0.02% F.S.	0.02% F.S.	0.01% F.S.	0.02% F.S.
Creep (in 1 hr)	0.03% F.S.	0.05% F.S.	0.03% F.S.	0.03% F.S.	0.02% F.S.	0.03% F.S.
Zero balance	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.
Temperature effect span	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load
Temperature effect zero	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load
Operating temperature range	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C
Compensated temperature range	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C
Input resistance	385 ± 15Ω	385 ± 15Ω	770 ± 40Ω	770 ± 20Ω	350 ± 5Ω	750 ± 5Ω
Output resistance	350 ± 3Ω	350 ± 3Ω	700 ± 5Ω	700 ± 5Ω	350 ± 5Ω	700 ± 5Ω
Safe overload	150% F.S.	150% F.S.	150% F.S.	150% F.S.	150% F.S.	150% F.S.
Ultimate overload	300% F.S.	300% F.S.	300% F.S.	300% F.S.	300% F.S.	300% F.S.
Excitation voltage	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC
Maximum excitation voltage	15VAC/DC	15VAC/DC	30VAC/DC	30VAC/DC	15VAC/DC	30VAC/DC
Insulation resistance	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ
Environmental protection	IP67	IP67	IP67	IP67	IP68	IP67
Material	Alloy Tool Steel (VLC-110) Stainless Steel (VLC-110S)	Alloy Tool Steel	Alloy Tool Steel	Alloy Tool Steel	Stainless Steel	Alloy Tool Steel
Cable	4 Color Shield Cable 20 FT	4 Color Shield Cable 50 FT	4 Color Shield Cable 50 FT	6 Color Shield Cable 50 FT	6 Color Shield Cable 50 FT	6 Color Shield Cable 50 FT
<b>Applications</b>						
	Mechanical scale conversion Tank, bin and hopper weighing Truck scale conversion Tension/compression measurement	Truck scale Tank weighing Hopper weighing	Truck scale Tank weighing Hopper weighing	Truck scale Tank weighing Hopper weighing	Truck scale Tank weighing Hopper weighing	Truck scale Tank weighing Hopper weighing
<b>Wiring</b>						
Red	INPUT (+)	INPUT (+)	INPUT (+)	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)
Black	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)
Green	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)	INPUT (+)	INPUT (+)	INPUT (+)
White	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)
Blue				SENSING (+)	SENSING (+)	SENSING (+)
Yellow				SENSING (-)	SENSING (-)	SENSING (-)
<b>Recommended max. platform size</b>						
<b>Compatible Models</b>						
	<b>VLC-110</b> Rice Lake RL20001 Sensortronics 60001 Celtron STC <b>VLC-110S</b> Sensortronics 60050 Celtron STS SS	Celtron LCD			Yamato CC21	

## VMC LOAD CELLS



Model	VLC-131	VLC-132	VLC-133	VLC-134	VLC-137S	VLC-138
<b>Type</b>	Single-point	Single-point	Single-Point	Single-Point	Single-point	Single-point
<b>Capacity</b>	5, 10, 20, 30, 50, 100, 200 lb	60, 100, 250, 500, 635 kg	100, 250, 500, 635, 1000 kg	3, 6, 10, 20, 25, 35, 50, 100 kg	60, 100, 200, 300, 500 kg	50,100, 150, 300, 500 kg 1000, 1200 kg
<b>Specifications</b>						
Rated Output	2mV/V ± 10%	2mV/V ± 10%	2mV/V ± 10%	2mV/V ± 10%	2mV/V ± 0.1%	2mV/V ± 10%
Non-linearity	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.
Hysteresis	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.
Non-repeatability	0.02% F.S.	0.02% F.S.	0.02% F.S.	0.02% F.S.	0.02% F.S.	0.02% F.S.
Creep (in 1 hr)	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.	0.03% F.S.
Zero balance	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.	± 1% F.S.
Temperature effect span	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load	15PPM /°C of Applied Load
Temperature effect zero	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load	26PPM /°C of Applied Load
Operating temperature range	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C	-20°C ~ +60°C
Compensated temperature range	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C	-10°C ~ +40°C
Input resistance	400 ± 15Ω	400 ± 15Ω	400 ± 15Ω	400 ± 15Ω	400 ± 20Ω	400 ± 15Ω
Output resistance	350 ± 3Ω	350 ± 3Ω	350 ± 3Ω	350 ± 3Ω	350 ± 3Ω	350 ± 3Ω
Safe overload	150% F.S.	150% F.S.	150% F.S.	150% F.S.	150% F.S.	150% F.S.
Ultimate overload	300% F.S.	300% F.S.	300% F.S.	300% F.S.	300% F.S.	300% F.S.
Excitation voltage	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC	10VAC/DC
Maximum excitation voltage	15VAC/DC	15VAC/DC	15VAC/DC	15VAC/DC	15VAC/DC	15VAC/DC
Insulation resistance	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ	≥ 2000MΩ
Environmental protection	IP67	IP67	IP67	IP67	IP67	IP67
Material	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Aluminum
Cable	4 Color Shield Cable 5 FT	4 Color Shield Cable 9 FT	4 Color Shield Cable 8 FT	4 Color Shield Cable 13 FT	4 Color Shield Cable 20 FT	4 Color Shield Cable 20 FT
<b>Applications</b>	Single-point platform scales Bench scales	Single-point platform scales Belt conveyor Bench scales Check Weighing Hopper scales	Single-point platform scales Belt conveyor Bench scales Check Weighing Hopper scales	Single-point platform scales Belt conveyor Bench scales Checkweighing Hopper scales	Single-point platform scales Belt conveyor Bench scales Checkweighing Hopper scales	Single-point platform scales Belt conveyor Bench scales Checkweighing Hopper scales
<b>Wiring</b>						
Red	INPUT (+)	INPUT (+)	INPUT (+)	INPUT (+)	INPUT (+)	INPUT (+)
Black	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)	INPUT (-)
Green	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)	OUTPUT (+)
White	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)	OUTPUT (-)
Blue						
Yellow						
<b>Recommended max. platform size</b>	300mm x 300mm	400mm x 600mm	750mm x 750mm	400mm x 400mm	600mm x 450mm	600mm x 800mm ( 50-500kg) 800mm x 1000mm (1000-1200kg)
<b>Compatible Models</b>	HBM SP4 Revere 642		Rice Lake RL1250 Tedeia 1250 Revere 652	Rice Lake RL1521 Celtron LPS		