

# <u>VE4</u>

## HERMETICALLY SEALED BENDING BEAM LOAD CELL

#### applications

- Washdown/Corrosive Environments
- Process Control Weighing
- Belt and Bagging Scales
- Tank, Bin and Hopper Weighing
- Reactor, Mixer and Blender Weighing

#### features

- 5 Kg To 500 Kg Capacities
- Compact Size
- Excellent Performance
- 0.03% Accuracy Class
- Stainless Steel Design
- Welded, Hermetic Sealing
- Environmentally Sealed-IP66/67
- Companion Weigh Modules
- Two Year Warranty

SENTRAN, LLC California Commerce Center 4355 Lowell Street Ontario, CA 91761-2225

Toll Free: 1(888) 545-8988 Phone: 1(909) 605-1544 Fax: 1(909) 605-6305 Email: mail@sentranllc.com URL: www.sentranllc.com



Application Tip:

The Stainless Steel, Hermetically Sealed VE4 Is Designed Specifically For Washdown & Corrosive Environments.

The Model VE4 is a compact, high performance, bonded foil strain gage load cell constructed of Stainless Steel. The VE4 is designed to accurately measure compression loads in capacities ranging from 10 kg to 250 kg. The "dual-guided" cantilever design reduces sensitivity to off-center and side loading effects. To achieve sealing ratings of IP66 and IP67 (thoroughly sealed against airborne particles, strong jets of water and the effects of immersion up to 1 meter.) composite environmental barriers are incorporated, including a flexible stainless steel bellows and welded seals to protect the strain gage area. The integral cable is durable, polyurethane jacketed and features a braided, tinned-copper shield for mechanical protection and to minimize the effects of common industrial electrical noise, e.g. RFI and EMI. The environmentally sealed cable entry incorporates a stainless steel coupled cable fitting and strain relief for the cable. The attributes of the VE4 make it an ideal choice for reactor, mixer and blender weighing, material handling, packaging, process applications and O.E.M. weighing situations where a well sealed, versatile, high performance load cell solution is needed.

#### INNOVATIVE MEASUREMENT SOLUTIONS







performance	Compact Load Cell Hermetic Seal Stainless Steel Construction Excellent Price/Performance Ratio	mechanical						
Rated capacities (kg): Rated output (FSO) Combined error Non-linearity Hysteresis Non-repeatability Creep (20 minutes) Zero balance Zero Return (20 minutes)	10, 20, 50, 100, 200, & 250 2 mV/V $\pm$ .25% $\leq$ 0.03 % FSO $\leq$ 0.03 % FSO $\leq$ 0.02 % FSO $\leq$ 0.01 % FSO $\leq$ 0.03 % of load $\leq$ 1 % FSO Better than 0.03 % FSO	Material: Finish: Safe overload Ultimate overload Deflection Weight	17-4ph Stainless steel Electro-polished Compression/Tension: 150% FSO Side load: 30% FSO Compression/Tension: 300% FSO Side load: 50% FSO 0.020" (nominal) 1 lbs.					
electrical		environmental	66 67 12					
Input impedance Output impedance Insulation resistance Excitation Voltage Cable Color code:	385 ± 10 ohms 350 ± 5 ohms >5000 Megohms @ 50VDC 10 V AC/DC (15 V maximum) + Excitation (red) + Sense (brown) - Excitation (black) - Sense (yellow) + Output (green) - Output (white)	Temperature, operating Temperature, compensated Temperature effects: Sealing	-4 to +140 °F (-20 to +60-°C) 14 to +104 °F (-10 to +40°C) Zero < 0.0015% FSO/°F < 0.0026% FSO/°C Output < 0.0008% of Rdg./°C IP66/IP67; Hermetic; Welded					
Cable type	Shield (bare) 4-conductor; 22 AWG; tin-copper,	options						
Cable termination	braided shield; polyurethane jacket Finished conductors	Special cable lengths, MS connectors, Load Hardware, control instrumentation and Weigh Modules.						

### dimensions

100% SUSTRIES GURRANTEED														
Capacity		L	L1	L2	L3	L4	L5	L6	Η	H1	H2	H3	W	W1
5,10,20,	(mm)	120	18	82	10	19	41	38	41.6	28.2	20	10	31.5	26.6
50,100, 200,250,500	(inch)	4.72	.71	3.23	.39	.75	1.61	1.50	1.64	1.11	.79	.39	1.24	1.05

SENTRAN periodically introduces product enhancements. Specifications are subject to change without notice. Certified drawings are available upon request.