

AC SERIES

HEAVY-CAPACITY ANALOG COMPRESSION LOAD CELLS



- High-capacity vehicle weighing, tank/hopper weighing
- Direct replacement for Cardinal Scale 50K-SCA and 100K-SCA load cells
- Heavy-duty compression load cells with self-centering column
- Stainless steel IP69K protection rating
- Global solution with sense leads



ANTI-ROTATION SYSTEM

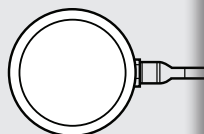


Extra-robust
upper and lower
cups made
of plated alloy
steel for optimal
weighbridge
support and stability

ANTI-ROTATION COMPRESSION LOAD CELLS FOR HIGH-CAPACITY WEIGHING SYSTEMS

Cardinal Scale's AC series analog load cells are ideal for multi-cell applications and prevent unwanted forces from affecting load cell performance. They are designed for easy installation and maintenance and ensure high accuracy for heavy-capacity weighing in vehicle scales or tank/hopper scales. The AC series may be directly interchanged with Cardinal model SCA load cells.

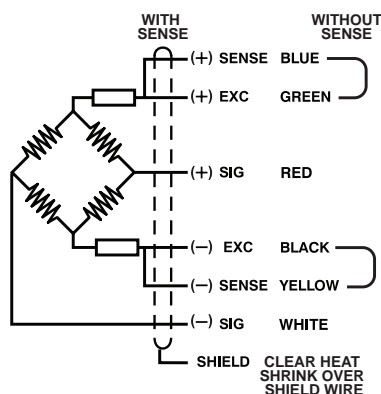
- 50,000-lb/22,700-kg capacity (model AC-50K) and 100,000-lb/45,000-kg capacity (model AC-100K)
- Hermetically-welded, protection class IP69K
- OIML and NTEP certified for international use
- Durable stainless steel construction
- Simple to install
- May be used with (6 wires) or without (4 wires) sense leads



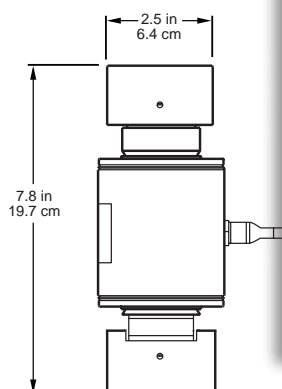
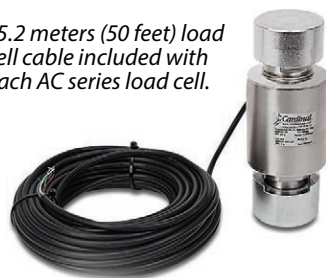
SPECIFICATIONS

Capacity	AC-50K	22,700 kg / 50,000 lb
	AC-100K	45,000 kg / 100,000 lb
Construction	Stainless steel load cells with plated alloy steel anti-rotation cups	
Rated Output	2mV/V at rated capacity	
Output Resistance	1005±5	
Input Resistance	1150±50	
Accuracy Class	4,000 n. OIML / 10,000 NTEP	
Minimum Dead Load	0%Ln	
Service Load	120%Ln	
Safe Load Limit	200% Rated Capacity	
Total Error	< ±0.017%Sn	
Repeatability Error	< ±0.015%Sn	
Temperature Effect on Zero	< ±0.01%Sn/5 °C	
Temperature Effect on Sensitivity	< ±0.006 %Sn/5 °C	
Creep Error (30 minutes)	< ±0.016 %Sn	
Temperature Compensation	-10°C to + 40°C	
Temperature Limits	-50°C to + 70°C	
Nominal Sensitivity	2mV/V	
Nominal Input Voltage	10V	
Maximum Input Voltage	15V	
Input Impedance	1150±50Ω	
Output Impedance	1005±5Ω	
No Load Output	±2%Sn	
Insulation Resistance	> 5000 Ω	
Maximum Deflection	0.6-1mm	
Protection Class	IP69K	
NTEP Certification Number	17-123	
OIML Certification Number	2000-A-GB1-18.03	

ELECTRICAL CONNECTION



15.2 meters (50 feet) load cell cable included with each AC series load cell.



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Cardinal Scale reserves the right to improve, enhance, or modify features and specifications without prior notice.

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