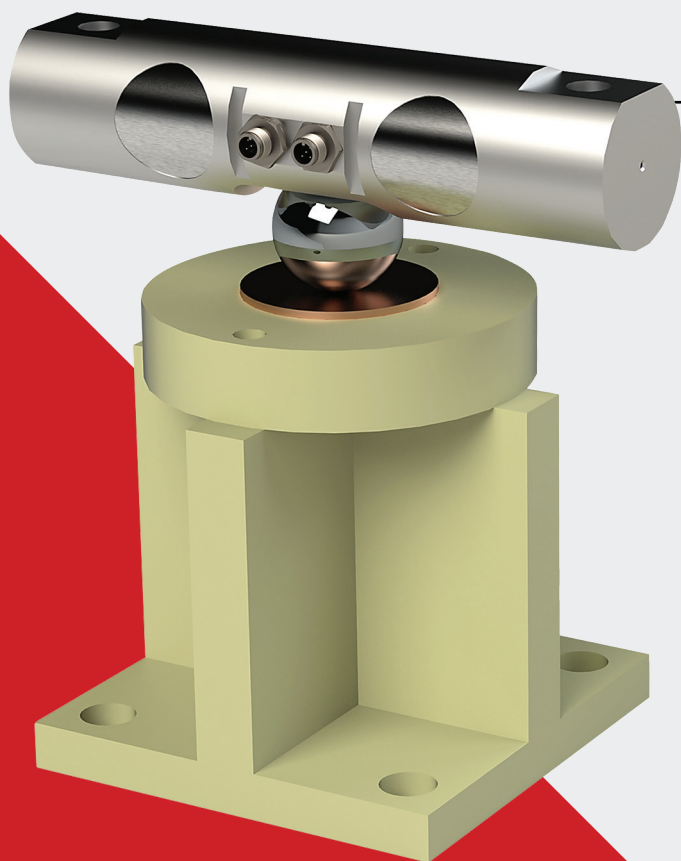


SMARTCELL®

DIGITAL LOAD CELLS

SCBD SERIES | HEAVY-CAPACITY DIGITAL LOAD CELLS



Double-ended shear beam digital load cells

High-capacity vehicle weighing

Self-checking capabilities allow the scale to operate without bumper bolts or checkrods

Cloud-based monitoring convenience

Stainless steel IP69K protection rating

No junction box connections necessary

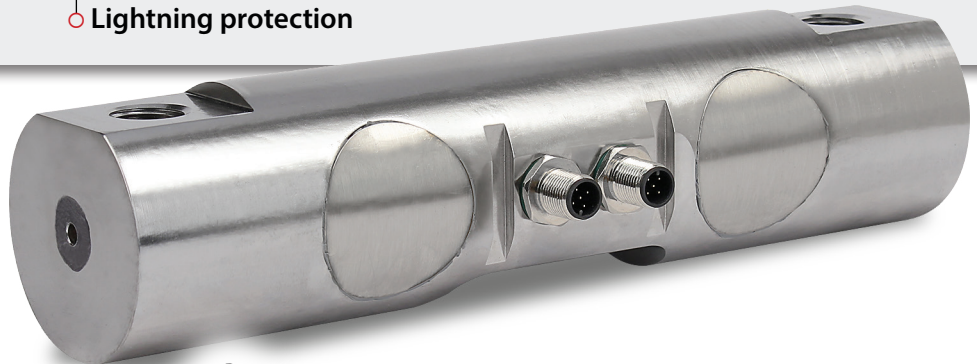


SELF-CHECKING DIGITAL DOUBLE-ENDED SHEAR BEAM LOAD CELLS

DIGITAL WEIGHING ACCURACY AND ISITE MONITORING CONVENIENCE

- 34,000 kg / 75,000 lb and 45,000 kg / 100,000 lb capacities available
- Hermetically-welded, protection class IP69K
- Completely encapsulated with proprietary potting compound
- OIML and NTEP certified for international use
- Lightning protection

Cardinal Scale's SCBD series stainless steel digital load cells feature an IP69K-rated waterproof protection rating that is completely encapsulated and filled with a potting compound to fill all internal voids and prevent any potential for moisture entering the load cell.



24/7 SCALE
MONITORING
CONVENIENCE
WITH CARDINAL
SCALE'S

iSITE For SmartCell® Digital Load Cells

MINIMIZE DOWNTIME DUE TO ONBOARD DIAGNOSTICS WITH E-MAIL/TEXT ALERTS

iSITE Hello Jonathan

My Cardinal Sites

16 Normal Sites | 60 Warning Count | 147 Error Count

Site Selection

Recent Activity

Date	Message
12/15/2017	Went out to the scale on Tuesday and used NEST to review load cell #3
11/2/2017	Calibrated scale - ran NEST prior to calibration
10/19/2017	Sent tech to job site to check homeman cable connection after lightning strike
8/5/2017	Called customer to check in about weight readings
4/23/2017	Replaced load cell #8

203 East Daugherty Street

Customer Service
(800) 441-4237
cardinal@cardinal.com

Parts Department
(800) 441-4237
parts@cardinal.com

Technical Support
(800) 254-8261
tech@cardinal.com

iSITE Hello Jonathan

My Cardinal Sites

16 Normal Sites | 60 Warning Count | 147 Error Count

Site Selection

Customer	Site	City	State	Scale	Status
Ag Tech Customer	Silo 1	Atlanta	GA	Northbound Scale	E
Silverbank Aggregate Customer	Rock Quarry 1	Joplin	MO	Southbound Scale	N
Allico Ag Industries Customer	Silo 2	Kansas City	KS	Scale #3	N
Worldpoint Waste Co. Customer	Transfer Station 1	Jacksonville	MS	Scale #1	N
Omega Quarry Customer	Rock Quarry 2	Joplin	MO	Scale #1	N

Recent Activity

Date	Message
12/15/2017	Went out to the scale on Tuesday and used NEST to review load cell #3
11/2/2017	Calibrated scale - ran NEST prior to calibration
10/19/2017	Sent tech to job site to check homeman cable connection after lightning strike
8/5/2017	Called customer to check in about weight readings
4/23/2017	Replaced load cell #8

Customer Service
(800) 441-4237
cardinal@cardinal.com

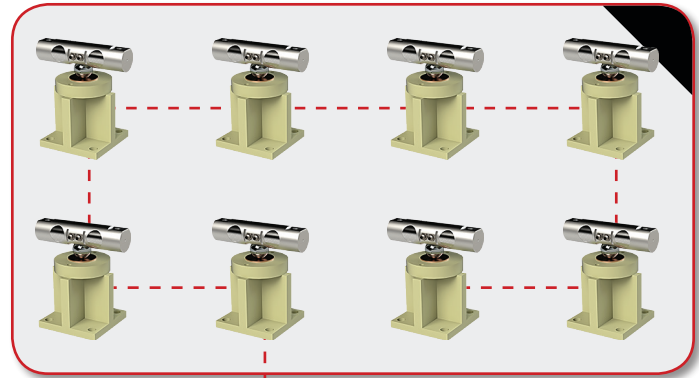
Parts Department
(800) 441-4237
parts@cardinal.com

Technical Support
(800) 254-8261
tech@cardinal.com

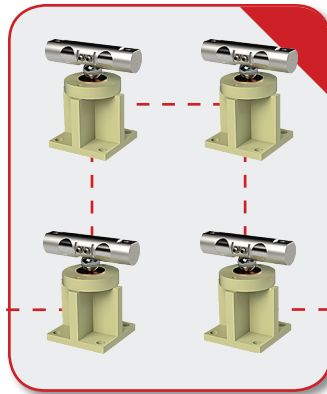
DIGITAL SOLUTIONS ALLOW CUSTOMERS TO PLAN FOR EXPANSION

THE SCBD SERIES SOLUTION CAN ADAPT AS YOUR PROJECT DEVELOPS

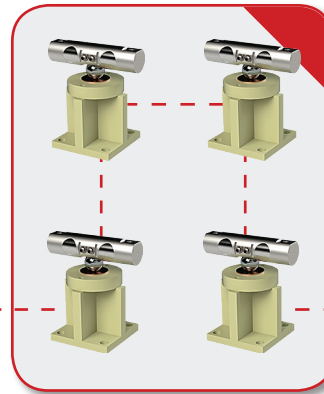
SmartCell® load cells are daisy-chained together, greatly easing cable runs



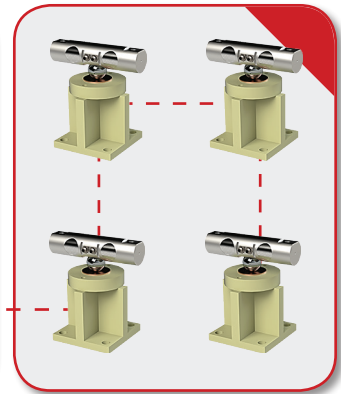
32 Load Cell Max Limit



Scale 1



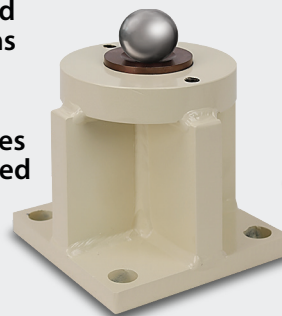
Scale 2



Scale 3

ADVANTAGES OF DIGITAL LOAD CELLS

- SmartCell® installation set-up and maintenance is greatly simplified over older analog systems.
- Diagnostics are easy to perform, even for novice technicians new to the scale industry.
- The SmartCell® digital system detects and diagnoses faults and failures more quickly, efficiently, and precisely.
- Load cell level diagnostics allow for troubleshooting directly through Cardinal indicators.
- SmartCell® iSite diagnostic software sends cell failure notifications to scale technicians.
- Simplified wiring system and no junction box eliminates problems associated with traditional analog load cell systems.
- Scale productivity is increased due to expedited diagnosis.
- Costs associated with inspections are greatly reduced.
- SmartCell® issues can be diagnosed from a remote location.
- SmartCell® load cells offer the same industry-leading lightning protection that is featured in Cardinal weight indicators.
- SmartCell® stainless steel cell design ensures longer cell life and is IP69K rated against water.



Cardinal Scale's SCDC series kits provide all the electronics necessary for a digital truck scale, minus the weighbridge.

SMARTCELL[®]

DIGITAL LOAD CELLS



KEY FEATURES

- Supports up to 32 digital load cells – Providing wide flexibility for suitable applications
- Homerun cable uses standard cable and can be 300 meters in length – Enables flexibility with location of indicator
- Standard (load cell to load cell) cable lengths – 15 ft / 4.5 m, 27 ft / 8.2 m, and 37 ft / 11.2 m cable lengths available
- Ability to expand solution – Solution can adapt as your project develops
- Clear error messages – Reduce time to diagnose and rectify issues - reduces downtime
- DLC card is compatible with existing 225 or 825 series indicators – Ability to retrofit analog load cell solutions already in the market place

ON-SCREEN INDICATOR DIAGNOSTIC MENU EASES TROUBLESHOOTING



Cardinal Scale's 225D Navigator and 825D Spectrum indicators provide onscreen diagnostics for Cardinal digital load cells enabling scale technicians to see real-time errors such as unresponsive load cells, damaged analog sections, invalid set-up parameters, and it can also assist with board replacements.

MINIMUM AND MAXIMUM WEIGHTS (This can be zeroed as needed)

MAXIMUM / MINIMUM WEIGHTS		
1.	0.0/	-1.2
2.	0.0/	-1.0
3.	0.5/	-0.1
4.	1.4/	0.0
PREVIOUS NEXT EXIT		

LIVE LOAD CELL WEIGHTS

LOAD CELL WEIGHTS		
1.	54.9	
2.	26.5	
3.	25.9	
4.	67.3	
PREVIOUS NEXT EXIT		

LOAD CELL DAMAGED

NO WEIGHT		1b	CAL
-----		G	
REPLACE LOAD CELL 2			
ID	COUNT		

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

SOLD BY:

Cardinal
Cardinal Scale Manufacturing Co.
203 E. Daugherty, Webb City, MO 64870 USA
Ph: 417-673-4631 or 800-441-4237 • Fax: 417-673-2153
www.CardinalScale.com

Mobile: m.cardinalscales.com