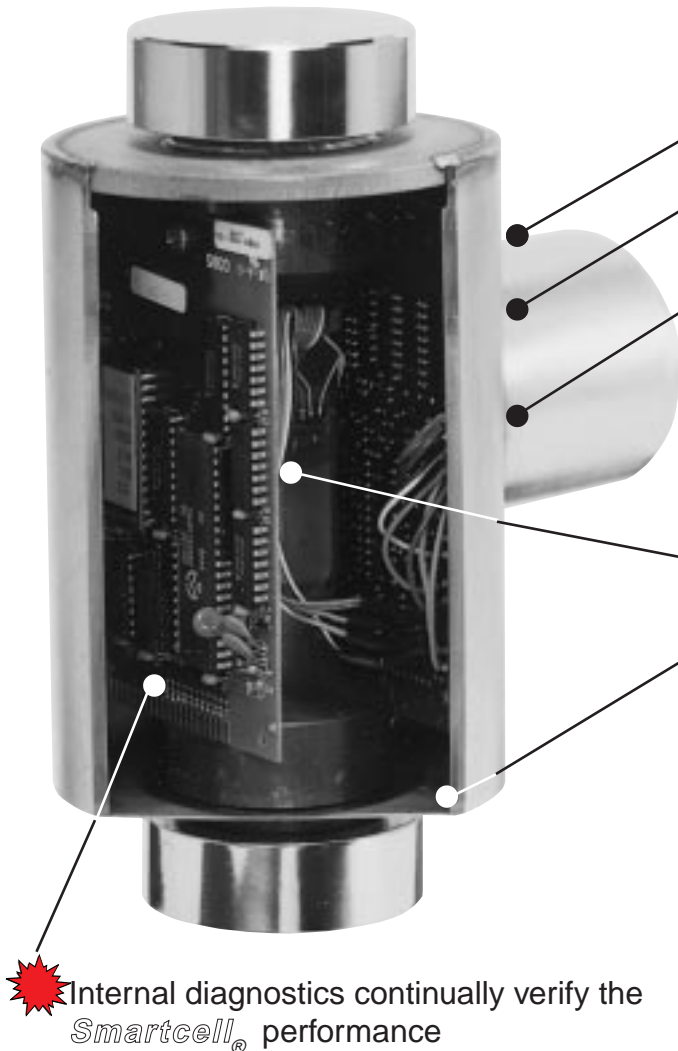


Cardinal LOAD CELLS

SERIES "SCD" - COMPRESSION LOAD CELLS

A digital compression load cell with a full set of features make Cardinal's *Smartcell*® a smart buy!



- 100 percent stainless steel construction
- Proprietary digital output eliminates errors caused by electrical noise
- Surge protection board provides built-in protection from lightning-induced electrical transients
- Microcomputer based circuitry automatically compensates for temperature-induced error
- Hermetically sealed enclosure
- Available in 22600 kg and 45300 kg capacities

When your application requires the noise immunity and performance of a digital load cell, make the smart choice, Cardinal's digital *Smartcell*®. The *Smartcell*® contains a microcomputer and digital circuitry that automatically compensates for non-linearity and temperature-induced error. The *Smartcell*® digital output is unaffected by electrical noise. Diagnostic features verify that the *Smartcell*® is performing properly and quickly identify a problem, should one occur.



REGISTERED 9001
ISO

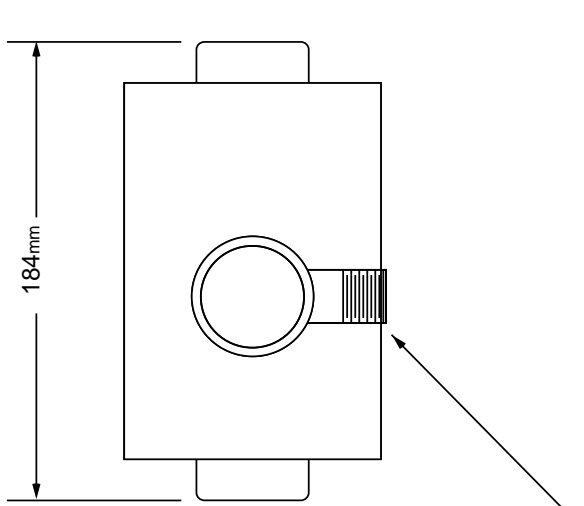


This load cell meets all requirements of Handbook 44, issued by the National Institute of Standards and Technology and have been issued the NTEP Certificate of Conformance No. 89-071.

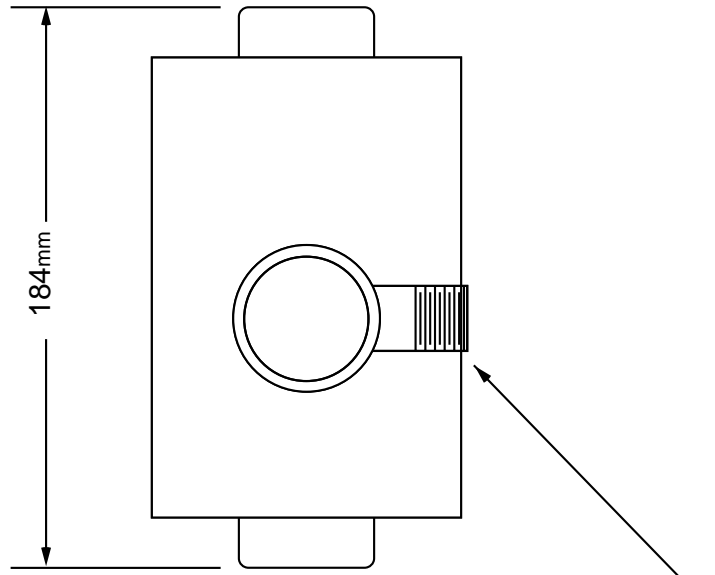


Cardinal Scale reserves the right to improve, enhance and modify features and specifications without prior notice.

Cardinal SERIES "SCD" COMPRESSION LOAD CELLS



Shielded 4 conductor cable with connector
Model 50K-SCD
 Capacity: 22600 kg
 45300 kg



Shielded 4 conductor cable with connector

SPECIFICATIONS

Mechanical Data

Rated Capacity, (R.C.)E _{max}	22600 & 45300 kg
Minimum Dead Load	230 & 450 kg
Safe Load Limit	150% R.C.
Ultimate Load	300% R.C.
Deflection at R.C.	0.33 mm
Spring Element Material	17-4 PH
Net Weight	6 kg

Certificate Data

Issuing Body	NTEP
Certificate Number	89-071
Accuracy Class	III L
Maximum Number of Load Cell	
Intervals, n _{max}	10000
Single/Multiple	M
Minimum Load Cell Verification	
Interval V _{min}	2.3 kg & 4.5 kg

Electrical Data

Rated Output	Digital, proprietary
Excitation Voltage,	
Recommended	24 VDC ± 0.5 VDC
Excitation Voltage,	
Maximum	24 VDC ± 0.5 VDC
Cable Length	9 m
Insulation Resistance	>5000 megohms at 50 VDC

Environmental Data

Temperature Compensation	
Range	-10° to +40°C
Operating Temperature Range ..	-29° to +93°C
Construction & Protection	
Code	CP-87 HU, IP68
Barometric Pressure Effect	
on Zero Load Output	<1 v (min)/1kPa

Color Code

+ Excitation	Red	T x D (data out)	Green
Common	Black	R x D (data in)	White

Each load cell is furnished with stainless steel load buttons on each end and a load cell cable connector.

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