

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Hanging Scale  
Digital Electronic  
Model: HSDC Series  
 $n_{\max}$ : See below  
 $e_{\min}$ : See below  
Capacity: See below

Accuracy Class: III

**Submitted by:**

Cardinal Scale Manufacturing Co.  
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**Standard Features and Options**

Model Number	Capacity	E <sub>min</sub>	N <sub>max</sub>	Load Cell
HSDC-10KG	9.995 kg	0.005 kg	1999	Cardinal CMBC-20
HSDC-20	20 lb	0.01 lb	2000	Cardinal CMBC-20
HSDC-20KG	20kg	0.01 kg	2000	Cardinal CMBC-50
HSDC-40	40lb	0.02 lb	2000	Cardinal CMBC-50
HSDC-40KG	40kg	0.02 kg	2000	Cardinal CMBC-200
HSDC-100	99.95 lb	0.05 lb	1999	Cardinal CMBC-200
HSDC-100KG	99.95 kg	0.05 kg	1999	Cardinal CMBC-200
HSDC-200	200 lb	0.1 lb	2000	Cardinal CMBC-200

Automatic (AZSM) zero setting mechanism  
Semi-automatic (push button) zero setting mechanism  
Semi-automatic (push button) tare  
Gross/net display

Load cell is non-NTEP

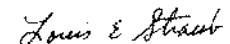
Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

Low battery indication  
Battery operated  
Sleep mode  
Automatic shut-off

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.



Ross J. Andersen  
Chairman, NCWM, Inc.



Louis E. Straub  
Chairman, National Type Evaluation Program Committee

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**Cardinal Scale Manufacturing Co.**  
**Digital Electronic Hanging Scale**  
**Model: HSDC**

**Application:** General purpose weighing.

**Identification:** The self-destructive identification label is located on the top of the scale.

**Sealing:** The scale is sealed with a wire security seal threaded through two drilled head screws that secure the plate that covers the calibration switch.

**Test Conditions:** The Models HSDC-20 and HSDC-200 digital hanging scales were submitted for evaluation. The scales were tested for increasing and decreasing load, over a temperature range of -10 °C to 40 °C (14 °F to 104 °F).and over a voltage range of 6.3 to 9.0 VDC. Additionally, a load of approximately one-half capacity was applied to the each scale over 100,000 times. The scale was tested periodically during this time.

The results of the evaluations and information provided by the manufacturer indicate the device complies with the applicable requirements specified in Handbook 44.

**Type Evaluation Criteria Used:** NIST Handbook 44, 2003 Edition

**Tested By:** A. McCoy (OH)

**Information Reviewed By:** S. Patoray (NCWM), L. Bernetich (NCWM)