



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: Contact Info. Updated September 2015**  
Cardinal Scale Manufacturing Company  
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### Standard Features and Options

**Standard Features:**

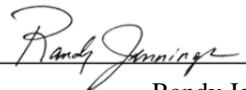
- Automatic (AZSM) Zero Setting Mechanism
- Low Battery Indication
- Semi-automatic (push-button) Zero Setting Mechanism
- Battery Operated
- Semi-automatic (push-button) Tare
- Sleep Mode
- Gross/Net Display
- Automatic Shut-off
- Load Cell is non-NTEP

Model Number	Capacity	$e_{min}$	$n_{max}$	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

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

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST 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. \*Editorial changes, not affecting the type or metrological content, corrected this certificate.

  
Tim Tyson  
Chairman, NCWM, Inc.

  
Randy Jennings  
Chairman, National Type Evaluation Program Committee  
Issued: October 21, 2010

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**Cardinal Scale Manufacturing Co.**

Hanging Scale / HSDC Series

**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.

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

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2003. NCWM, Publication 14: Weighing Devices, 2003.

**Conclusion:** The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

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