



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Scale System Controller
Digital Electronic
Model: SNAP Series
 n_{max} : 10 000 / 5 000 (see below)
Accuracy Class: III / III L

Submitted By:
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Standard Features and Options

Standard Features:

- Wireless or RS232 Serial Interface
- Category 1 Lead-Wire Security Seal

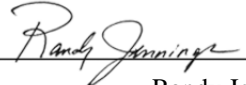
This device accepts the input from one or more analog load cells, conditions the analog signal, performs the analog-to-digital conversion and wirelessly transmits the digitized value to a compatible Cardinal indicating element where it is converted to a proper weight value and displayed for use. Applications for more than four cells may use multiple SNAP-4 modules up to a maximum of sixteen load cells.

Model	No. of Cells	n_{max}	Enclosure Material
SNAP-1	1	5 000	Plastic
SNAP-4	4	10 000	Stainless Steel

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.


Tim Tyson
Chairman, NCWM, Inc.


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

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Cardinal Scale Manufacturing Company

Scale System Controller / SNAP Series

Application: Load Cell Controller that when connected to an approved and compatible display element forms a complete indicating element. Intended for general purpose weighing applications.

Identification: The self-destructive identification label is applied to the cover of the device.

Sealing: Category 1 lead-wire security seal threaded through two adjacent cover drilled-head retaining screws.

Test Conditions: A Model SNAP-1 with a Cardinal Model 205 (NTEP CC Number 01-011) and a Model SNAP-4 with a Cardinal Model 210 (NTEP CC Number 01-011) were submitted for evaluation. The emphasis of the evaluation was on device design, operation, and compliance with influence factors. The SNAP device and accompanying indicator were interfaced with a load cell simulator and tested for accuracy over a temperature range of -10°C to 40°C (14°F to 104°F). The device was tested for discrimination, power interruption and zero tests. Additionally, the device was tested with a supply voltage of 10 to 30 VDC.

Evaluated By: E. A. Payne Jr. (MD)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2010. NCWM, Publication 14: Weighing Devices, 2010.

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

Information Reviewed By: J. Truex (NCWM)

Examples of Device:



Model SNAP-4



Model SNAP-1