NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Model: SCT-2200, SCT-1100, SCT-4X-yy, SCT-1SX-yy, LaserLT
n_{max}: 10 000
Accuracy Class: III / III L

Submitted By:
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Standard Features and Options

- Semi-Automatic (push button) Zero Setting Mechanism
- Automatic Zero Tracking (AZT)
- Semi-Automatic (push button) Tare
- Keyboard/programmable tare
- Gross/Net Display
- Multichannel (LaserLT, SCT-1100, SCT-4X)
- 120 VAC (LaserLT)
- 12 – 24 VDC
- lb, kg, g, oz, ton
- Remote Printer Capability
- RS485
- RS232
- Plastic (SCT-2200, SCT-1100, SCT-4X, SCT-1SX)
- stainless-steel housing (LaserLT)
- Category 2 sealing method SCT-1100, SCT-2200 (Audit trail)
- SCT-2200 & SCT-1100 also a paper seal
- LaserLT also lead wire seal.
- Category 1 Sealing method SCT-4X-yy, SCT-1SX-yy (physical seal)

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.

Marc Paquette
Chair, NCWM, Inc.

Gene Robertson
Chair, NTEP Committee
Issued: December 18, 2024

Rice Lake Weighing Systems

Indicating Element / SCT-2200, SCT-1100, SCT-4X-yy, SCT-1SX-yy LaserLT

Application: General purpose indicating element for use with any NTEP certified and compatible weighing element.

Identification: The required information appears on a self-destructive label on the side of the indicator. The capacity x division statement is on a label adjacent to the weight display.

Sealing: The model SCT-2200, SCT-1100 devices use a category 2 sealing method, the same key presses are used on the SCT-1100, SCT-2200 and LaserLT:
1.Hold Power key until "Audit" is displayed.
2.Press Down key twice. Displays "Info" Displays "Audit".
3.Press Enter key. Displays "LRV number", "SYS.CFG" (System Configurations).
4.Press Down or Up Key to toggle between "SYS.CFG", "SC.1.CFG" (Scale 1 Configurations) or "SC.1.CAL" (Scale 1 Calibrations).
5.Press Enter key to view the Audit Trail number for the selected counter.
6.Press the Clear key to again toggle between "SYS.CFG", "SC.1.CFG" or "SC.1.CAL". In the case of multiple scales, it will toggle up to "SC.4.CFG."
7.Press the Clear key to exist the Audit Trail mode.
The second method of sealing is the SCT-1100 and SCT-2200 use a paper seal, the LaserLT uses a lead and wire seal threaded through 4 drilled cover nuts, 2 on each side.

Models: SCT-1SX-yy, SCT-4X-yy use a category 1 sealing method. Both models are sealed using a box over a jumper (J1) on the board with a tamper evident sticker seal that must be removed to access the jumper. Both models also have a tamper evident sticker seal on the seam of the device preventing disassembly of the device to access the jumper. (see pictures in examples of device section)

Test Conditions: This Certificate supersedes Certificate of Conformance Number 20-046A1 and is issued to replace model SCT-1ST-yy with SCT-1SX-yy. Model SCT-1ST-yy was incorrect and should have been SCT-1SX-yy when Certificate of Conformance 20-046A1 was issued. Previous test conditions are listed below for reference.

Certificate of Conformance Number 20-046A1: The emphasis of this evaluation was to add new models, SCT-4X-yy, and SCT-1ST-yy. Models SCT-4X-MB and SCT-1ST-MB were submitted for evaluation. These devices were evaluated on device design, operation, marking requirements, performance, and compliance with influence factors. Both models were subjected to multiple increasing and decreasing tests within a temperature range of -10 °C to 40 °C (14 °F to 104 °F) and within a voltage range of 12 VDC to 24 VDC. Model SCT-4X-MB was evaluated for multi-channel and summing capabilities. Previous test conditions are listed below for reference.

Certificate of Conformance Number 20-046: The emphasis of the evaluation was on the device design, operation, marking requirements, performance, and compliance with influence factors. The SCT-2200, SCT-1100 & LaserLT were interfaced with a load receiving element to verify compliance with zero, zone of uncertainty and motion detection requirements. A load cell simulator was interfaced to the devices, several increasing/decreasing tests were performed. The device was tested over a temperature range of -10º C to 40º C (14º F to 104º F). Tests were conducted using 120 VAC and 12 to 24 VDC.

Evaluated By: M. Kelley (OH) 20-046; J. Coffey (OH) 20-046A1 (CN11142); B. Maser (NCWM) 20-046A2 (CN 11270)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2024 Edition. *NCWM Publication 14 Weighing Devices*, 2024 Edition.

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

Information Reviewed By: D. Flocken (NCWM) 20-046, 20-046A1, 20-046A2

Rice Lake Weighing Systems

Indicating Element / SCT-2200, SCT-1100, SCT-4X-yy, SCT-1SX-yy LaserLT

Example of Device:

SCT-4X-yy, SCT-1SX-yy Sealing.

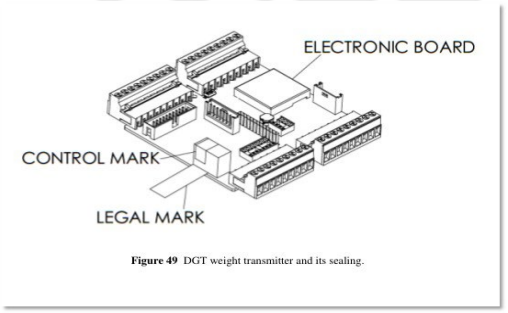
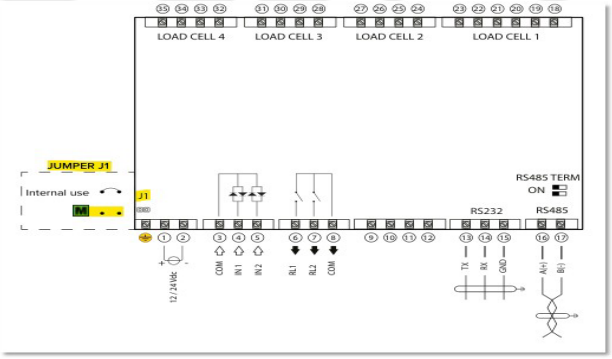


Figure 49 DGT weight transmitter and its sealing.



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