



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Dynamic, Static, AWS, Monorail, Vehicle, Weigh In/Weigh Out,
Model: SDS-xyyy-zz
Version: 1.10 or Higher
 n_{max} : 10 000
Accuracy Class: III/III L

Submitted By:

VBS, Inc dba: Vande Berg Scales, ASTD, or ECE
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Standard Features and Options**Standard Features**

Automatic Zero Tracking Mechanism (AZT)
Semi-Automatic Zero (Push-Button)
Keyboard Tare
Multiple Tare Memories
Percentage Tare
Programmable Tare
Proportional Tare
Semi-Automatic Tare (Push-Button)
AC Power
Power Saving Feature (Sleep Mode)
Alphanumeric Display
Gross/Net Display
IEEE-488
RS-232/USB
Ethernet
Remote Configuration
Linearity Calibration Points (10)
Multi-deck Multichannel Capability (Up to 16)
Center of Zero Indicator
Single/Multi-Interval

Non-Metrological Features:

xx= diagonal screen dimension in inches

yy= 00=touch screen 10=monitor/keyboard/mouse

zz= SS=Stainless Standard Enclosure, ST=Stainless Standard Tall Enclosure, SD=Stainless Deep Enclosure, PM=Panel Mount,

DT=Desk Top, LP=Lap top, TW= Tower, AS=Aluminum Standard Enclosure, AT=Aluminum Standard Tall Enclosure,

AD=Aluminum Deep Enclosure

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

Optional Features

Customer Display (Dual)
Liquid Crystal Display
Pedestal Display
Remote Customer Display
Touch Screen
Printer
Wireless Communication
Desk Top
Panel Mount
Laptop
Tower
Enclosure Variation (See Below)

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.

Ronald Hayes
Chairman, NCWM, Inc.

John Gaccione
Committee Chair, National Type Evaluation Program Committee
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VBS, Inc dba: Vande Berg Scales, ASTD, or ECE
Indicating Element / SDS-xyyy-zz

Application: General purpose indicating element for vehicle, weigh in/weigh out, and dynamic indicating element for use with approved and compatible weighing elements including static and dynamic AWS and monorail elements.

Identification: G.S.1 and G.S.1.1 information is continuously displayed and additionally the version number and other information may be found by touching the NTEP Info button.

Sealing: The SDS utilizes a category 3 seal. To access the event loggers select the “NTEP Info” button. A screen will be displayed that shows the configuration and calibration audit counters as well displaying relevant marking data in a larger format. On the screen an additional button is available “Show Audit Log”. When the Show Audit Log button is selected 5 additional logs are available, including Configuration, Calibration, Keyed Tares, Programmable Tares, and Version History.

Test Conditions: The emphasis of this evaluation was on the design, operation, and performance. A model SDS-xyyy-zz was interfaced with a (NTEP certificate of conformance number) indicating element, printer and load cell simulator. Numerous weight transactions were performed to verify tare and receipt formats. The SDS indicator was evaluated using Publication 14 checklists for use in Weigh In/Weigh Out applications, livestock, AWS and monorail weighing systems in both static and dynamic modes of operation, and as a standard indicating element. The unit evaluated utilized an Avery Weigh-Tronix model ZM201 (NTEP Certificate of Conformance number 13-017) however any other 10 000 n_{max} NTEP approved device can be substituted. Since there is no A-D board specific to the SDS, testing of environmental factors was not performed.

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*, 2014 Edition. *NCWM Publication 14 Weighing Devices*, 2014 Edition.

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:





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