



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Electronic, Bench/Counter scale
Model: SJ-WP Series
 n_{max} : see table below
 e_{min} : see table below
Capacity: see table below
Platform: 236mm x 192 mm plastic platter/stainless steel cover
Accuracy Class: III

***Submitted By: Contact Info. Updated December 2019**

A&D Engineering, Inc.
1756 Automation Way
San Jose, CA 95131
Tel: 408-518-5132
Fax: 408-263-0119
Contact: Markus Jansons
Email: mjansons@andonline.com
Website: www.andonline.com

Standard Features and Options

- Semi-Automatic (Push Button) Zero Setting Mechanism (SAZSM)
- DC power only (six D-Cell Batteries)
- Automatic Zero Tracking (AZT)
- 7 segment Liquid Crystal Display (LCD)
- Initial Zero Setting Mechanism (IZSM)
- Bubble level
- Alphanumeric 7 segment display
- Battery Saving feature (Auto-Shut off)
- External unit key (kg, g, lb, and oz)
- Semi-Automatic (push button) Tare

Model	Capacity x d (kg)	Capacity x d (g)	Capacity x d (lb)	Capacity x d (oz)	n_{max}
SJ-3000WP	3 x 0.001	3000 x 1	6.6 x 0.002	105 x 0.05	3300
SJ-6000WP	6 x 0.002	6000 x 2	13.2 x 0.005	210 x 0.1	3000
SJ-15KWP	15 x 0.005	15 000 x 5	33 x 0.01	520 x 0.2	3300
SJ-30KWP	30 x 0.01	30 000 x 10	66 x 0.02	1050 x 0.5	3300


Load Cells Used:

A&D 1LC197-3000, A&D 1LC197-6000, A&D 1LC197-15K and A&D LC197-30k (non-NTEP).

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.


Brent Gurney
Chairman, NCWM, Inc.


James Cassidy
Committee Chair, National Type Evaluation Program Committee
Issued: December 19, 2018

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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A&D Engineering Inc.
Non-Computing Scale / SJ-WP Series

Application: A portable non-computing scale for general purpose weighing applications.

Identification: All marking requirements are on a self-destructing tamper evident label on the right side of the device housing. Capacity x division declaration is on the front of the device above the weight indication display.

Sealing: Category 1 physical seal. The calibration button is recessed on the underneath front side of the scale housing and is covered by a plastic plate that is affixed in place with two cross drilled hex head fasteners that allow a wire security seal for sealing. Please refer to photograph.

Test Conditions: Two models from the A&D SJ-WP series were submitted for evaluation. The emphasis of the evaluation was on the device design, marking, operation, performance, and compliance with influence factors. For this evaluation the models: SJ-3000WP 3000g x 1g and SJ-30KWP 30kg x 0.01kg were submitted. Multiple increasing/decreasing load tests, eccentricity and discrimination tests were performed on each scale. The scales were tested with a DC power supply at 5.6 VDC and 9.9 VDC. A warm up, power interruption and suitability of level indicator tests were also performed. The scales were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to each scale over 100 000 times. During permanence testing increase/decrease testing was performed and at the conclusion of permanence testing increase/decrease, eccentricity and discrimination testing was repeated.

Evaluated By: J. Gibson (OH)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2018 Edition. NCWM Publication 14 Weighing Devices, 2018 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:



SJ-3000WP



SJ-30KWP



A&D Engineering Inc.
Non-Computing Scale / SJ-WP Series

Sealing of all models in the SJ-WP Series:

