



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Register for Meter
Digital Electronic, Stationary, Wholesale, Controller
Model: N414; Software Version 03.06.xx

Submitted By:

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Standard Features and Options

N414 Batch Controller with ticket printer

Standard configuration: N414-P-CB-HB-IR-OR-PG-XX-ZB-ZN

Ordering information: N414 -P -C_ -HB -IR -OR -PG -XX -ZB, -ZN, -ZR

Flowmeter input signal

P - Coil, NPN, PNP, open collector, Namur, reed-switch, active pulses.

Printer communication

CB - RS232 communication - ASCII data.

CH - RS485 communication - 2-wire - ASCII data.

Panel mount front enclosure

HB - Aluminum front panel - IP67 (Type4X).

Additional input signal

IR - Remote control input to start, hold, reset, keypad lock and external alarm.

Digital output signals

OR - 2 field replaceable, mechanical relays (NO-NC) and 3 passive transistor outputs.

Power requirements

PG - 24V DC and 110 - 230V AC, with 1.2 / 3 / 8.2 / 12 / 24V DC sensor supply.

Hazardous area

XX - Safe areas / Ordinary Locations only.

Other options

ZB - Backlight.

ZN - W&M switch.

ZR - LURC function (Latch Until Reset Complete).

The bold marked text contains the standard configuration.

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.

Kristin Macey
Chairman, NCWM, Inc.

Jerry Buendel
Committee Chair, National Type Evaluation Program Committee
Issued: July 12, 2017

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Register for Meter, Digital Electronic / Model N414

Application: This register/controller is designed for wholesale stationary use in non-hazardous environments. It is designed to be flush mounted in a cabinet. This register/controller is also has printer output.

Identification: Identification information is on the top side of the register on the main chassis and will require opening the cabinet to view. The National Type Evaluation Number and Software Version are located within the same cell. The software version number consists of six characters (xx.yy.zz) of which only the first four are metrologically significant. Any change in xx.yy will warrant NTEP notification for certification.

Sealing: The sealing is Category One. The Weights and Measures switch must be put in the locked position to the right for operating mode. When the switch is set to the left the unit is in configuration mode and is conspicuously indicated on the screen and on all printed tickets. Sealing is accomplished by threading a physical seal through the holes in the switch cover, the main chassis and the main circuit board that the cover slides over.

Operation: The N414 register is compatible with all certified meters that use pulse type (coil, NPN, PNP, open collector, Namur, reed-switch, active pulse) as the signal output.

Test Conditions: Two N414 registers were tested in a stationary environment. One was tested using mass meter electronics simulated inputs. The second was tested using electronics simulating inputs from a volume meter. All features and options of the registers were tested in each application. Parameters were changed when in the configuration mode. No parameters or metrologically significant changes could be performed when the weights and measures switch was in the locked position.

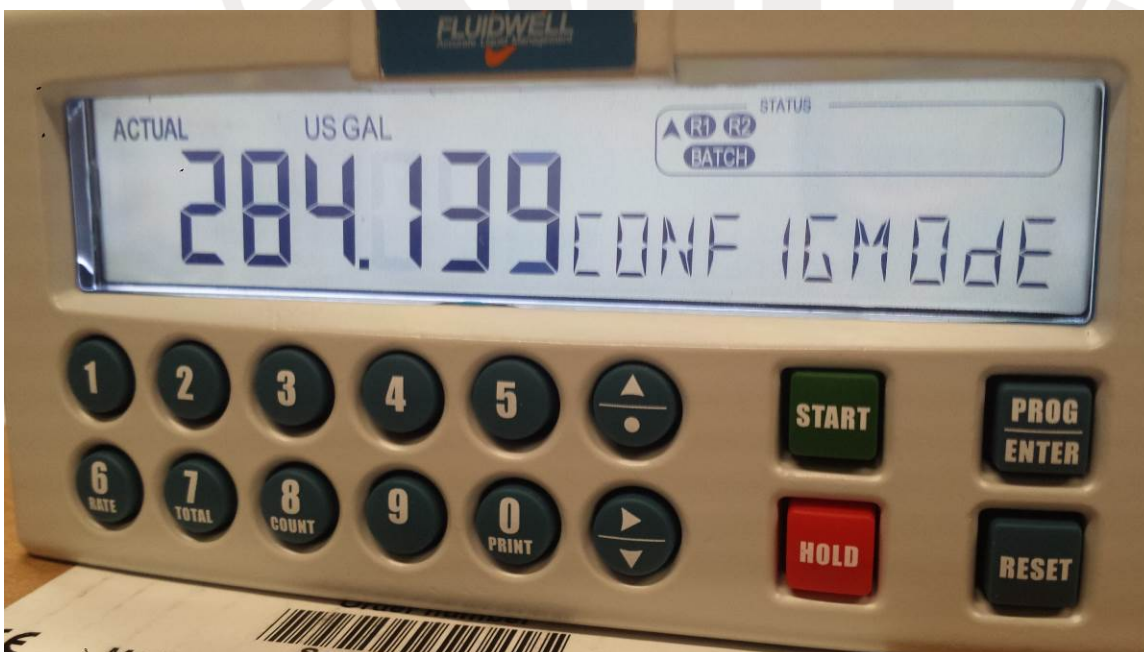
Evaluated By: A. Katalinic (NC)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2017 Edition. *NCWM Publication 14 Measuring Devices*, 2017 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)

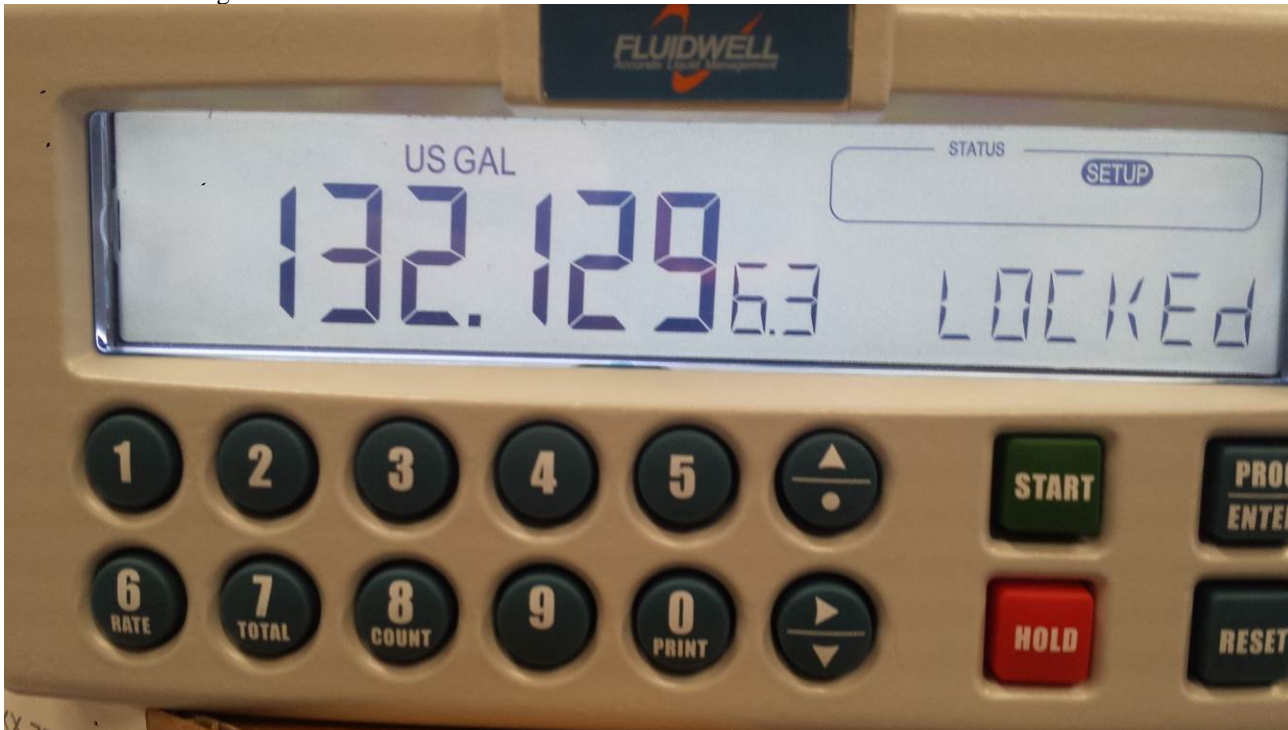
Example(s) of Device:



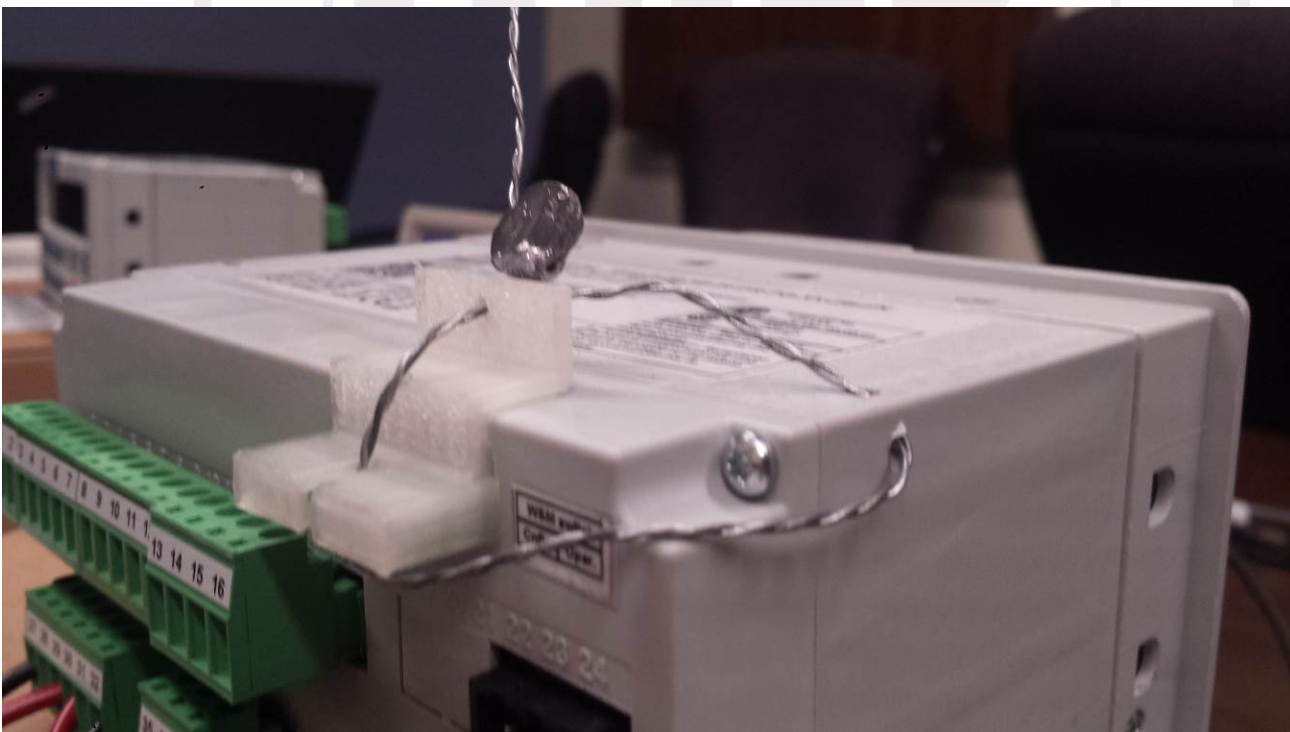


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Register for Meter, Digital Electronic / Model N414

Screen shot in configuration mode.



This screen will only appear for a few seconds and then goes to an operational screen.



Sealing Method- Physical seal should be a tight as possible.