NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:
Register for Meter
Stationary Wholesale Liquid Register/Controller
Digital Electronic
Model: PD63XX Series* and PD8-63XX Series**

Submitted By:
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Standard Features and Options

*PD63XX Series Models: PD63XX-YYY-ZZZZ (Panel Mount)
**PD8-63XX-YYY-ZZZZ (Field Mount Explosion-Proof)
X,Y And Z Denote Non-metrological Features
Example: PD6310-6H2-WM   Register/Controller; 2 Relays; Powered from 85-265 VAC

- Display Variables Include Flow Rate, Total, and Grand Total
- 85-265 VAC or 12-24 VDC Power
- Non-Resettable Grand Total
- Six-Digit SunBright LED Display
- Single or Multi-Stage Batch Control
- Resettable Total when Batch is Not Running
- Batch Volume Preset, Start & Pause/Stop Keys
- Two or Four Relays and/or 4-20 mA Output
- Expansion Modules: 4 Relays; (2) 4 Digital I/O
- RS-232/RS-485 and USB Modbus RTU Communication
- Configure, Monitor, and Datalog from a PC with Free Software

Model Number Examples:

Panel Mount	Explosion-Proof	Description: Register/Controller
PD6310-6H2-WM	PD8-6310-6H2-WM	2 Relays; Powered from 85-265 VAC
PD6310-6H4-WM	PD8-6310-6H4-WM	4 Relays; Powered from 85-265 VAC
PD6310-6H5-WM	PD8-6310-6H5-WM	2 Relays + 4-20 mA Output; Powered from 85-265 VAC
PD6310-6H7-WM	PD8-6310-6H7-WM	4 Relays + 4-20 mA Output; Powered from 85-265 VAC
PD6310-7H2-WM	PD8-6310-7H2-WM	2 Relays; Powered from 12-24 VDC
PD6310-7H4-WM	PD8-6310-7H4-WM	4 Relays; Powered from 12-24 VDC
PD6310-7H5-WM	PD8-6310-7H5-WM	2 Relays + 4-20 mA Output; Powered from 12-24 VDC
PD6310-7H7-WM	PD8-6310-7H7-WM	4 Relays + 4-20 mA Output; Powered from 12-24 VDC

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.

John Gaccione
Chairman, NCWM, Inc.

Stephen Benjamin
Committee Chair, National Type Evaluation Program Committee
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Stationary Wholesale Liquid Register/Controller Digital Electronic
Model: PD63XX Series & PD8-63XX

Application: This register will receive pulses from a meter output and convert them to a measure. The unit will be approved for stationary service only with approved and compatible equipment. The register will be mounted inside a cabinet or installed as an explosion-proof field mounted device with just the face and touch controls exposed for use. The explosion-proof models use infrared sensors to activate the controls when the unit is in operation.

Identification: A durable foil tag is located on the main body of the register.

Sealing: On the panel-mount model, sealing is accomplished by attaching the removable cover on the rear of the unit and threading a sealing wire through the provided predrilled holes; on the explosion-proof model, sealing is accomplished by attaching the removable glass cover of the enclosure and threading a sealing wire through the provided predrilled hole on the cover and a mounting flange on the base of the enclosure. The sealing jumper cannot be accessed with the cover in place.

Operation: The values are indicated on a two-line, 7-segment LED display. The top line typically displays the Total (current batch) and the bottom line typically displays the following: Batch Preset, Batch Count, Rate, Grand Total, or Engineering Units or Tag.

On the batch controller models, any of these parameters can be viewed by pressing the F3 key while the batch is not running. The START key is used to start/resume a batch, the STOP key is used to pause and stop the batch, and the BATCH key is used to change the batch size (Preset). The batch total is reset automatically at the beginning of each batch or it can be reset manually by using the MENU key and navigating to the Total Reset menu.

The provided software allows configuration of all the parameters prior to installation of the sealing jumper, inside the unit; once the jumper is installed, the software can only be used for monitoring or data logging.

Test Conditions: This register was installed in a manufacturers test lab with simulated and live pulses. A majority of the testing was performed running actual product at five different flow rates spread over the range of the meter's operating minimum and maximum of 20 to 200 gallons per minute. All results were within tolerance and repeatability requirements. After a throughput of 509 000 gallons and 30 days the register was retested at the same flow rates. All results were within tolerance and repeatability requirements.

Evaluated By: A. Katalinic, (NC)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2014 Edition. *NCWM Publication 14 Measuring 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:

PD6310-6H2-WM

PD8-6310-6H2-WM