

iPERL™ Water Management System

Recommended Bench Test Procedure

iPERL should be tested in accordance with AWWA C-700 Cold Water Meters-Displacement Type and/or the AWWA M6 Water Meters-Selection, Installation, Testing, and Maintenance Manual Table 5-3.

1. If a reference meter is used it should be installed downstream of the iPERL
2. Ensure the system is grounded and that pressure fluctuations are minimized
3. Run 100 gallons through the iPERL system before beginning the test to ensure that the system is purged of air and that the iPERL flowtube is full
4. Start with the high flow test first (35 gpm) and then proceed down to the lower flows (10, 5, 0.1 gpm)
 - a. Run a volume of at least 100 gallons at the 35, 10 and 5 gpm rates
 - b. Run a volume of at least 10 gallons at the 0.1 gpm rate

Testing Rules of Thumb:

- On any meter test, the more water measured or the longer the test is run, the more accurate the volume measurement will be
- Proximity of valves and significant pressure fluctuations over short periods of time can affect the outcome of any meter test
 - These are not typical of residential applications and will not impact performance in the field
- Electronic registers may show water accumulation after the flow has stopped for a short period of time
 - There is a small time lag between flow detection and displayed totalization – based on the fact that electronic registers update at spaced intervals for power consumption purposes



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