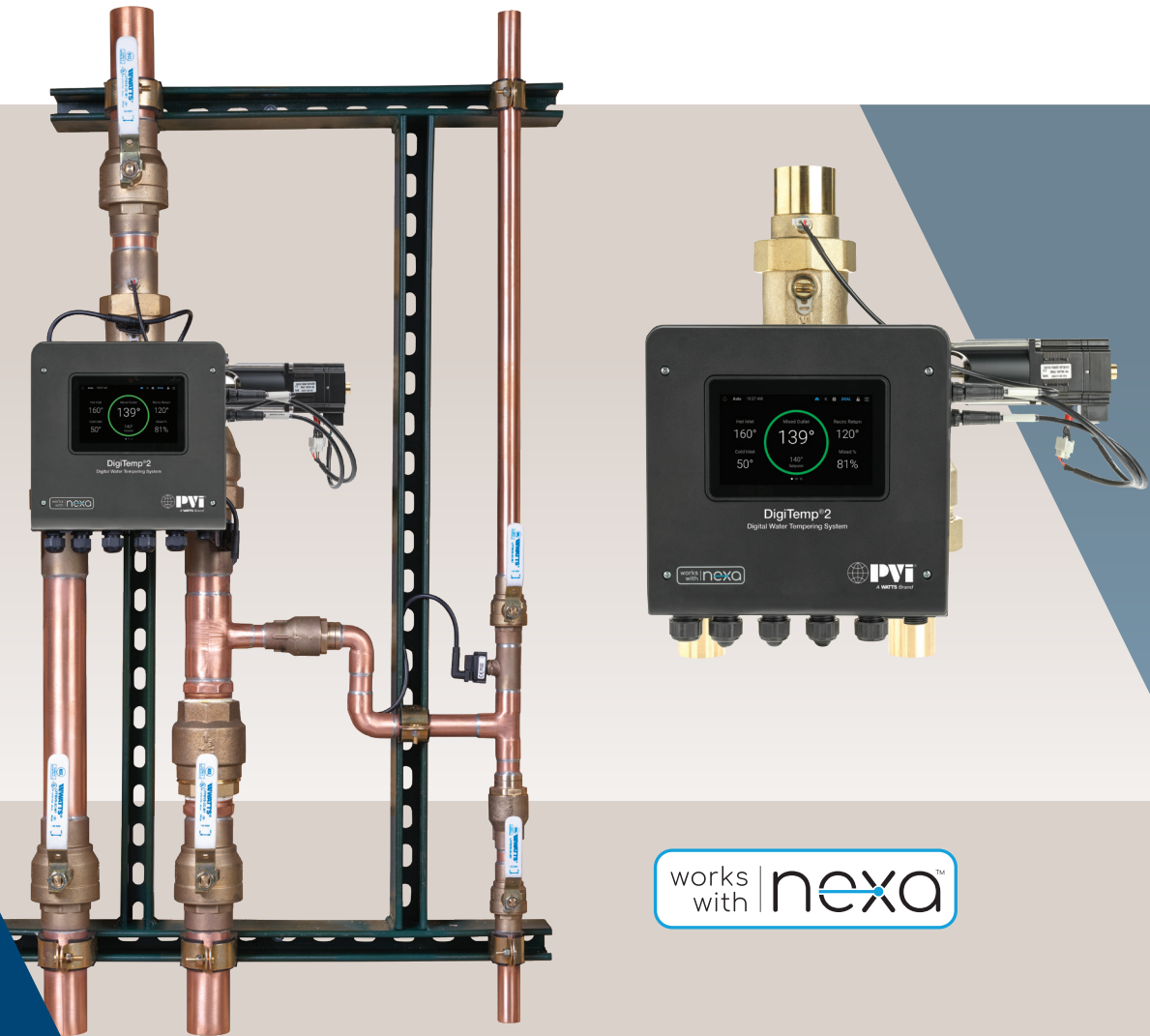


DigiTemp[®] 2

Digital Water Mixing Valve



works with nexa[™]

Precise Temperature Control for Safety & Efficiency

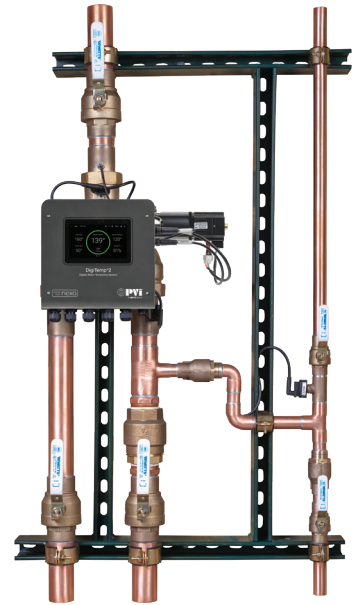
DigiTemp 2 delivers next-generation digital water temperature management for commercial and institutional systems. It maintains outlet temperature within $\pm 2^{\circ}\text{F}$ in accordance with ASSE 1017, ensuring consistent delivery even under varying demand conditions.

With intuitive onboard controls, built-in safety features, and seamless BAS integration, DigiTemp 2 simplifies commissioning, monitoring, and long-term operation. Nexa connectivity adds remote visibility, advanced alerts, and energy-saving system control across single or multi-building facilities.

Two Configurations to Choose From

DigiTemp 2 is a standalone compact digital mixing valve designed for flexible field installation. Ideal for applications requiring precision control with simple integration.

DigiTemp 2S is a pre-piped, factory-assembled digital mixing valve system engineered to reduce field installation time and improve system-level visibility with integrated sensing and recirculation connections.



DigiTemp 2S



DigiTemp 2



ASSE 1017 compliant performance



$\pm 2^{\circ}\text{F}$ temperature control accuracy



Built-in thermal sanitization mode



Fail-safe full cold on power loss

nexa™

Remote access via Nexa platform



Programmable temperature setback



Secure, passcode-protected controls



BACnet MSTP and Modbus integration



Full-color touchscreen interface

Smarter Control, Safer Systems, and Lower Energy Use

DigiTemp 2 is designed to deliver immediate and long-term benefits, including improved safety, energy efficiency, and enhanced control across commercial hot water systems.

Protect Occupants and Minimize Risk

Precise temperature control maintains outlet water within $\pm 2^{\circ}\text{F}$, helping reduce the risk of scalding and thermal shock in demanding applications. Built-in safety features, including **fail-safe full cold** operation, add another layer of protection during power loss. A **high-temperature sanitization mode** supports proactive water safety strategies by addressing potential bacteria risks.

Support Efficient, Sustainable Operation

By maintaining accurate outlet temperatures, DigiTemp 2 avoids excessive hot water temperatures that lead to wasted energy. **Programmable temperature setbacks** allow systems to lower temperatures during off-peak periods, while **Nexa-enabled scheduling** supports coordinated energy management across facilities. The result is improved system efficiency without compromising performance or safety.

Simplify Operations

An intuitive touchscreen interface provides direct access to configuration, alerts, and system data with no external tools required. Time-stamped **alerts and error history** help teams diagnose issues faster and maintain system performance. With **BAS and remote connectivity**, operators can monitor and adjust settings without being on-site.

Works with Nexa

The Nexa-enabled DigiTemp 2 gives facility teams enhanced, real-time insight, actionable data, and control across single facilities or entire campuses:

- Monitor temperature and system performance remotely
- Receive alerts based on safety or performance thresholds
- Track historical data for compliance and optimization
- Adjust temperature setpoints across buildings
- Identify opportunities for energy savings

Save Close to \$12,000 Annually*

Tighter temperature control reduces the energy waste common in conventional $\pm 7^{\circ}\text{F}$ TMV systems. When combined with setback strategies, the impact can be significant.

- **\$347/month** in savings from improved temperature control
- **\$645/month** in savings from temperature setback scheduling
- **\$11,911 per year** in total estimated energy savings

**Assumptions: Massachusetts commercial installation • Gas heat source • 1 1/2" (70 GPM) mixing valve • 140°F storage and 120°F delivery • Typical weekday operation with reduced weekend load*

A Closer Look at DigiTemp 2

Temperature Control and Safety

- $\pm 2^{\circ}\text{F}$ accuracy in accordance with ASSE 1017 ensures stable outlet temperatures, even under variable demand conditions
- A wide setpoint range from 60°F to 180°F supports both standard operation and high-temperature sanitization protocols
- In the event of power loss, fail-safe full cold flow helps protect occupants and maintain system safety

System Integration and Connectivity

- Native support for BACnet MSTP and Modbus allows direct integration with building automation systems without additional gateways
- Flexible connectivity via Wi-Fi, Ethernet, or BAS enables local or remote monitoring and adjustment of system performance
- Remote visibility, alerts, and system-level data tracking across buildings or campuses with Nexa

Installation and System Design

- Compact, field-installed design suited for new construction and retrofit applications
- Integral check valves prevent cross-flow, supporting reliable system operation
- Low minimum flow requirements and consistent accuracy at low demand conditions support stable performance in recirculating systems



Temperature Control Accuracy	$\pm 2^{\circ}\text{F}$ (ASSE 1017)
Setpoint Range	60°F to 180°F
Maximum Operating Pressure	200 psi
Max Hot Water Supply Temp	Up to 200°F
Minimum Flow Requirement	0 gpm (3 gpm recommended system flow)
Power Supply	120/240 VAC, 50/60 Hz
Connectivity	BACnet MSTP, Modbus, Wi-Fi
Certifications	ASSE 1017, cUPC, NSF 61 & 372

Designed for a Wide Range of Applications



Healthcare

Stable temperatures and water safety across hospitals, clinics, and long-term care



Nursing Homes and Assisted Living

Vulnerable occupants protected with consistent, controlled hot water delivery



Hotels and Multi-Family

Reliable performance across systems with fluctuating demand



Schools and Campuses

Centralized temperature control across large, distributed systems



Correctional Facilities

Secure, consistent temperature control in high-demand environments



Commercial Buildings

Efficient, controlled hot water for offices and mixed-use facilities

Reduce Scalding and Thermal Shock Risk

Uncontrolled hot water systems can expose occupants to dangerously high temperatures and sudden fluctuations. These conditions increase the risk of scalding injuries and thermal shock, especially in facilities serving vulnerable populations.

DigiTemp 2 helps maintain stable, controlled outlet temperatures, supporting safer hot water delivery across the entire system.

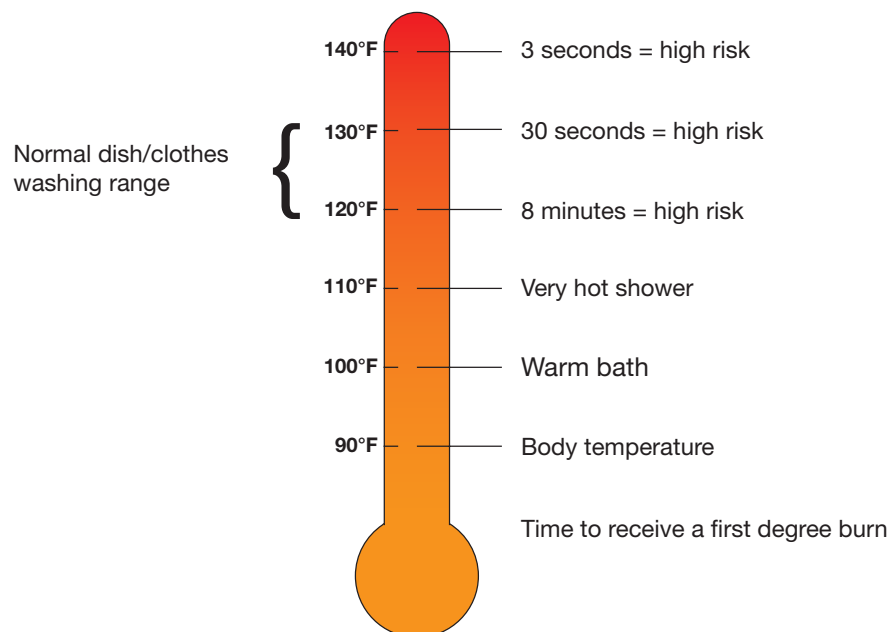
Did You Know? It Only Takes 3 Seconds

At 140°F, it takes as little as 3 seconds to cause a serious burn. Hot water systems that fluctuate or operate above target temperatures can increase the risk of scalding and thermal shock, particularly in high-demand or low-flow conditions.

DigiTemp 2 maintains **precise $\pm 2^\circ\text{F}$ temperature control**, helping ensure consistent outlet temperatures even as system demand changes.

By reducing temperature swings and delivering stable mixed water, it helps **minimize the risk of scalding** and sudden temperature changes at the point of use.

Built-in safety features, including **fail-safe full cold operation**, provide additional protection during power loss or system disruptions.



Safer Water Through Thermal Management

Proper temperature control is a critical part of maintaining safe domestic hot water systems as poorly managed systems can create conditions that allow waterborne bacteria, including Legionella, to grow and spread. DigiTemp 2 helps maintain consistent system temperatures while enabling high-temperature sanitization when needed, supporting safer water delivery without compromising occupant protection.

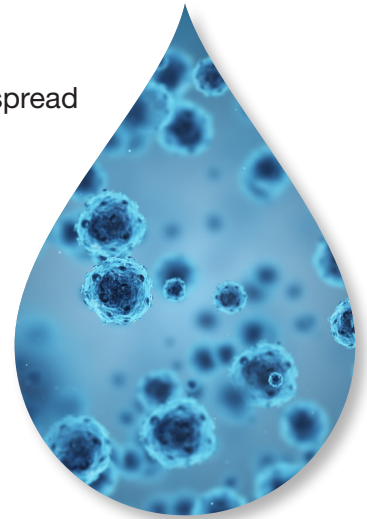
Why Temperature Management Matters

Waterborne bacteria can grow within common system temperature ranges, particularly when temperatures are inconsistent or insufficient for disinfection.

- **Legionella growth occurs** between approximately 68°F and 122°F
- **Inconsistent system temperatures** can allow bacteria to survive and spread
- **Improper temperature control** increases risk in storage tanks and distribution systems

The True Costs of a Rising Number of Legionella Outbreaks

The number of Legionella cases has increased nearly nine-fold in the last two decades with 10% of cases being fatal¹ and outbreaks can result in serious health risks and high operational costs for facilities. Legionella outbreaks cost U.S. facility owners more than \$1 billion annually, on average, due to lawsuits, treatment, and lost work hours.^{2,3}



Smarter, Connected Water Safety with a Nexa-enabled DigiTemp 2

Nexa enables facility teams to monitor and manage system temperatures with greater confidence. By providing real-time visibility and historical data, it helps ensure temperature targets are achieved and maintained.

- ✓ Verify sanitization cycles and confirm systems reach required disinfection temperatures
- ✓ Track temperature trends over time to support water management plans
- ✓ Receive alerts when system conditions fall outside defined thresholds
- ✓ Document performance to support compliance and internal protocols



¹ National Center for Biotechnology Information (NCBI)

² <https://www.infectioncontroltoday.com/view/preventing-waterborne-pathogen-transmission>

³ CDC VitalSigns, June 2017



Hot Water Solutions

PVI Industries | Fort Worth, TX
T: (817) 335-9531 | Toll Free: (800) 784-8326 | PVI.com