



CONNECTED BACKFLOW

Connect a better experience



An aerial photograph of a coastline featuring dark, rocky cliffs on the left that meet a vibrant blue ocean. The water transitions from a deep blue to a lighter turquoise near the shore. The sky is a clear, deep blue. The overall scene is serene and scenic.

COOL, CALM AND CONNECTED

Water is vital. It hydrates us, heats and cools buildings, stifles fires, sanitizes equipment, greens lawns, and grows our food. Water runs through practically every part of our daily lives. We can't live or work without it.

Like the name, backflow preventers keep the water in your systems flowing forward, never backward. They ensure your potable water supply is safe.

You can take it one step further to reduce risks and costs. Here's how connecting your backflow preventer allows you to optimize operational efficiency and water consumption.

WHAT WE SOLVED FOR YOU:



Operational Efficiency

Reduce Maintenance Costs

- Asset management
- Work order integration
- Maintenance planning
- Backflow test management
- Repair part ordering



Water Consumption

Reduce Water (and Your Monthly Bill)

- Water usage and pressure monitoring
- Submetering
- Leak detection
- Water saving recommendations
- Ability to earn LEED points

PREDICT WITH PLUMBSMART

When days change at the drop of a...drop, plumbSMART gives you some visibility and predictability. plumbSMART is the secure portal talking to your Zurn Connected Backflow Preventer. It allows you to monitor, maintain, and optimize performance remotely.

When it's urgent, you and your team get real-time alerts via text or email, based on your set parameters and permissions. And when it's not so urgent, you're still in the know and uncovering opportunities. Simply, log in to plumbSMART to view your built-out maintenance calendar, analyze water metrics and pressure trends, or look at the big picture.

It's your portal to decision making.



Receive These Alerts Wherever

- Pressure changes
- Unusual water usage
- Severe relief valve discharge
- Automatic Control Valve (ACV) shutdown



Dive Deeper Whenever

- Validate water consumption
- Understand usage patterns over time periods
- Improve maintenance efficiency

Active Alerts

See all



GREAT NEWS!
Your enterprise status is:
ALL CLEAR

Building Pressure

See more

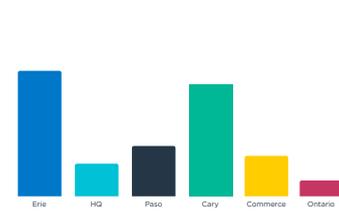
Zurn HQ



Alerts By Building

See more

Last week



Upcoming Maintenance

See all

Name	Location	Maintenance
Faucet #25	Zurn HQ > 7th floor > West > Men's	Solenoid replacement
FCIS 12 East	Paso Robles > Building 3 > Basement > East Wall	Annual test
FV #14	Paso Robles > Building 1 > 3rd floor > North > Women's	Diaphragm replacement
FV #2	Cary > Building 1 > 1st floor > West > Men's	Piston replacement
FCIS 3 West	Zurn HQ > 1st floor > CEC	Annual Test
Faucet #25	Zurn HQ > 7th floor > West > Men's	Solenoid replacement
FCIS 12 East	Paso Robles > Building 3 > Basement > East Wall	Annual test

CHOOSE YOUR CONNECTED BACKFLOW PREVENTER

Do you want to know if there is a spike or drop in pressure any time of day or would automatic shutoff help you sleep a little more soundly at night?

The capabilities that matter most depend on how you operate and where your backflow preventer resides. Use this comparison guide to determine the ideal solution for your needs.

	 Connected Double Check	 Connected Reduced Pressure Principle	 Connected Reduced Pressure Principle with Relief Valve Monitor (W1)	 Connected Flood Control System (FCIS)
Pressure Readings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Relief Valve Discharge Calculations			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Flooding Prevention			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic Water Shutoff				<input checked="" type="checkbox"/>
Connected Flow Meter Option <small>available upgrade combined with ZCSM-PF</small>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Connected Flood Control System (FCIS)



DON'T FIX THE PROBLEM. PREVENT IT.

If your backflow preventer is in your building, you're checking on it for your own peace of mind. What if it could check in with you instead?

Zurn Connected Flood Control System alerts you as soon as pressure changes, or relief discharge surpasses your set tolerances. And if you're in the middle of a task or halfway to another location, that's okay, you're totally supported. Your system shuts off automatically to prevent catastrophic flooding.

FLOOD CONTROL IS FULL CONTROL

Let your system do the monitoring for you.

System offers:

- Size options in 2-1/2", 3", 4", 6", 8" or 10"
- Integral relief valve monitoring
- Real-time alerts for preset discharge mode
- Automatic ACV shut off of water supply
- High-hazard protection for potable applications

plumbSMART delivers:

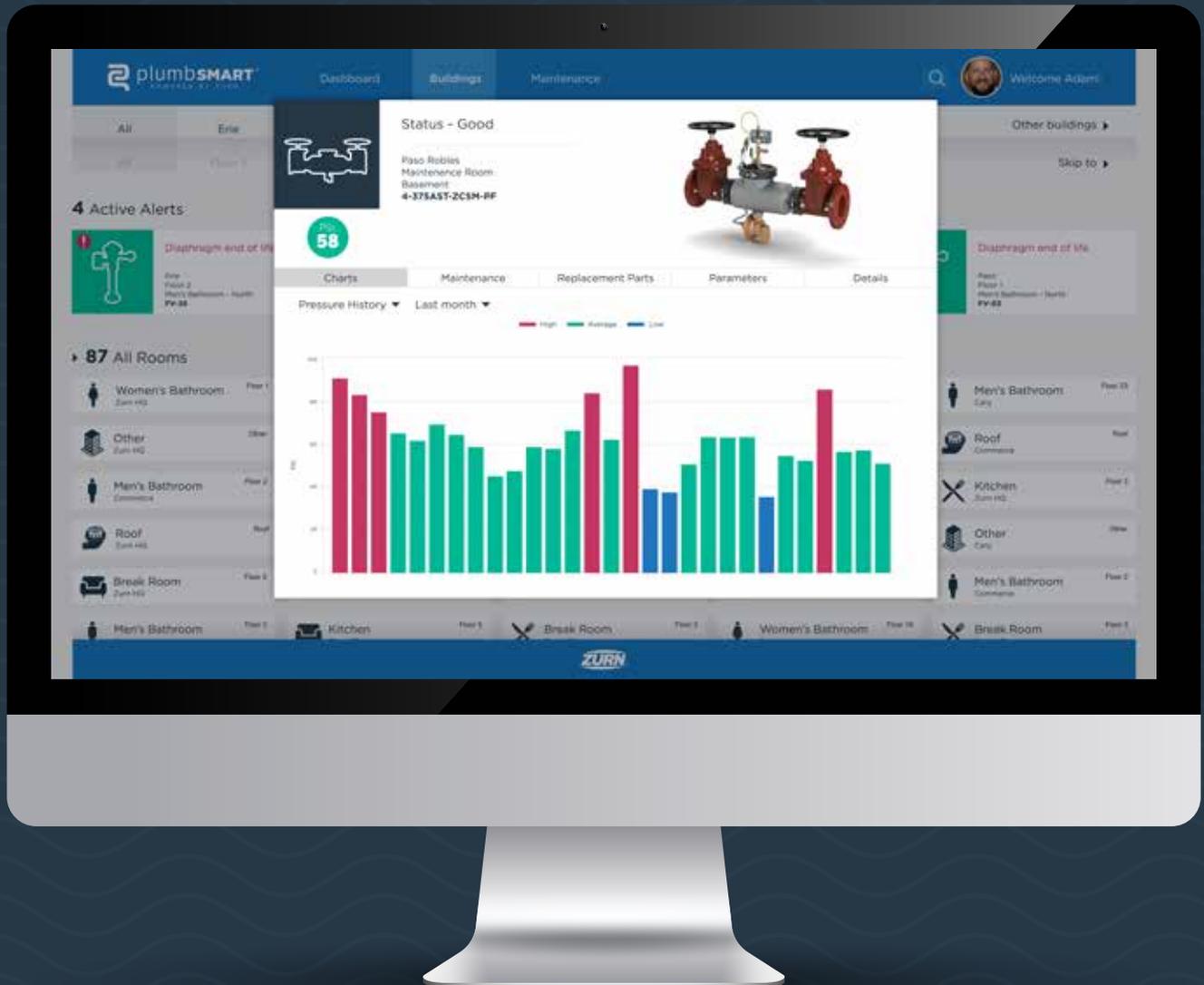
- Customizable discharge alerts provide protection against catastrophic property damage due to relief valve discharge
- Automatic water shutoff prevents flooding from discharge overwhelming the floor drain
- Real-time pressure alerts signal water pressure change from the city into your building

Connected Flood Control System alerts you in real time and shuts the water supply off automatically.

BEST FOR: *Buildings where RP Backflow is located in basement or mechanical room and catastrophic flooding could occur due to relief valve discharge or outside where excessive water discharge could erode landscaping or flood stadiums.*

If your building requirements restrict automatic shutoff, Zurn Connected Reduced Pressure Principle Assembly with Relief Valve Monitor (W1) is another flood protection option. This system will alert you as soon as pressure changes, or relief discharge surpasses your set tolerances.

Connected Pressure Monitor (ZCSM-PF)



TAKE THE PRESSURE OFF YOU

Gravity, high static, broken pipes, peak demand—a lot of ranging factors affect pressure. With all that could happen, you want it handled as soon as something does.

Zurn's Connected Pressure Monitor allows you to set high- and low-pressure thresholds. Once your pressure in your system exceeds or falls below these parameters, you're looking into it. Your fast action cuts down on costs and complexity.

HIGH OR LOW, LEVEL THE FIELD

Respond to pressure changes faster for an easier resolution.

System offers:

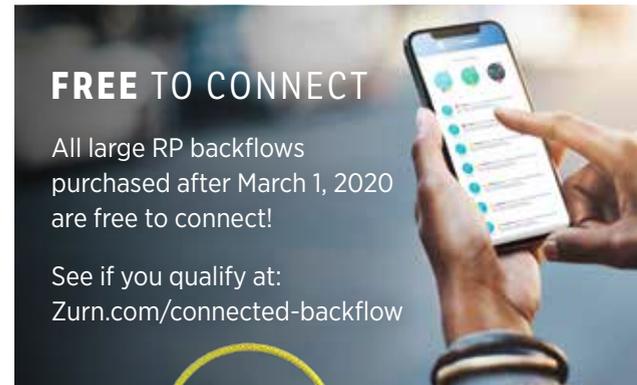
- Proactive incoming water pressure monitoring
- Real-time alerts for preset high and low pressure
- Available for Double Check or Reduced Pressure Principle Assembly Backflow Preventers 2-1/2" or larger

plumbSMART delivers:

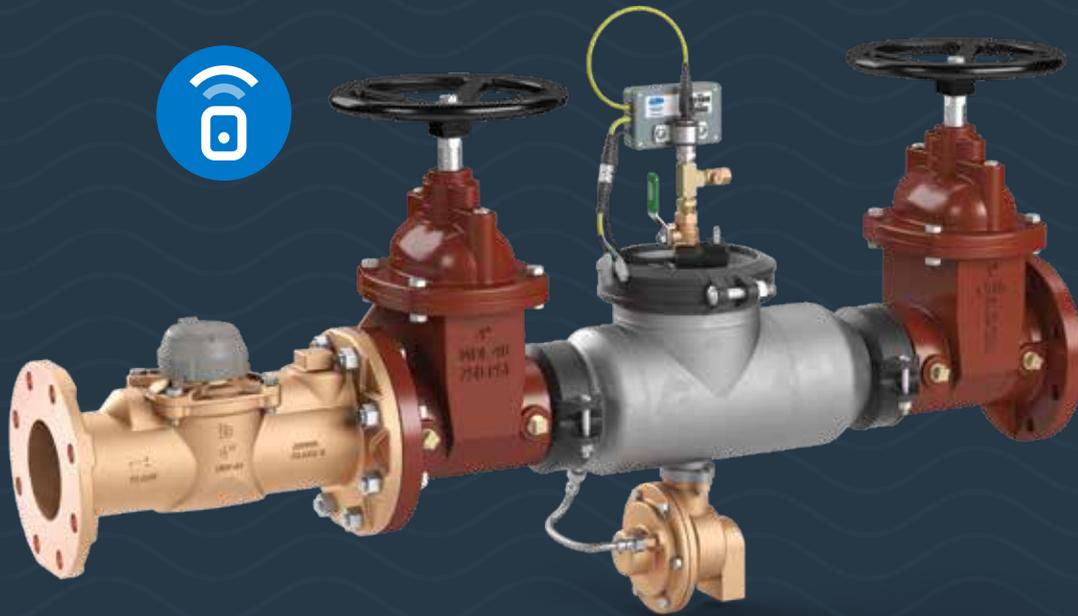
- Real-time pressure alerts update you on the water pressure from the city based on your thresholds
- Data trends on high, low, and average pressure help you identify and troubleshoot potential issues, such as a broken sprinkler head, excessive use, etc.
- 24/7 remote monitoring and alerts keep you in control

BEST FOR: *Any building system, especially structures with multiple stories or within metropolitan locations*

Connected Pressure Monitor can detect potential problems in the system that may require maintenance or when pressures differ from the city water supply.



Connected Flow Meter option (ZCSM-BTM)



Model: 4-375AST with ZCSM-PF and 4-ZCSM-BTM option shown above

A RESPONSIBLE CHOICE

Flow rate may seem like a nice-to-have feature. But it holds way more water when you think about it. Knowing your flow rate can reduce your day-to-day usage, costs, and risk of scrutiny or fines.

You can assess your building's water consumption, detect potential leaks, or schedule your maintenance around off-peak hours. Ultimately, you'll improve efficiency with more foresight.

KNOW THE FLOW

The more data, the more you can understand your building's innerworkings, so you can make strategic decisions.

System offers:

- Size options in 3", 4", 6", 8", and 10"
- Water rate monitoring and recording
- Real-time alerts for preset water waste

plumbSMART delivers:

- Advanced analytics detect a leak in real time to avoid catastrophic flooding
- Comparative, historical consumption data allows you to monitor and control your water system
- Water consumption metrics give you clear visibility into your building's usage patterns, so you can take action to lower water bills

BEST FOR: *Any building system*

Connected Flow Meter option tracks water consumption for your building and detects potential leaks. The Flow Meter option (ZCSM-BTM) is an available upgrade combined with the Zurn Connected Pressure Monitor (ZCSM-PF).



LEED IN WATER EFFICIENCY

Water is our most precious commodity. We all use it, and we can all find ways to use less of it. If you're already stretching every last drop, metering validates your efforts and positions you for LEED (Leadership in Energy and Environment Design) certification. If you're looking into ways you can make a difference, metering helps do that by understanding your building's systems and usage patterns.

LESS WATER, MORE POINTS

Zurn Connected Flow Monitoring earns you points towards LEED accreditation.

	Existing Construction	New Construction
Required	Use water meters to measure total potable water use for building and associated grounds	Use water meter to measure total potable water use for building and associated grounds and report results to USGBC
Eligible for Points	<p>1 point — monitor two subsystems</p> <p>2 point — monitor four subsystems</p>	1 point — monitor two subsystems





plumSMART

Dashboard Buildings Maintenance

4 Active Alerts



Relief Valve Discharging

Plum Alerts
Maintenance Room
Steamer
PCB-1



12

Actuations



Maintenance >

Replacement Parts

PR50-K-42 SPOUT
BASE GASKET

2000-2000-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

BUY ONLINE

PR50-K-8 SPOUT
BRASS GAZE

Steel parts for PR50-2000-K

BUY ONLINE

PR50-K-9-1
SOLENOID BOX

Electronic Box with Solenoid - 2000-01-01

BUY ONLINE

Men's Bathroom

Kitchen

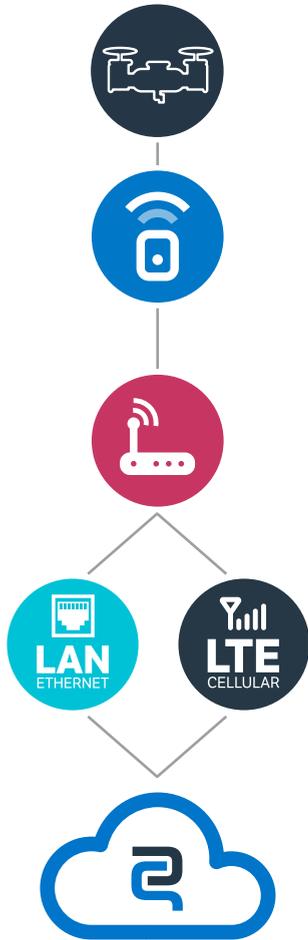
Break Room

Women's Bathroom

Men's Bathroom

Break Room





HOW IT WORKS

Using sensors, Zurn Connected Backflow Preventers monitor performance and offer insights by gathering data.

- Water consumption
- Predictive maintenance
- Severe relief valve discharge
- Pressure and flow rate thresholds

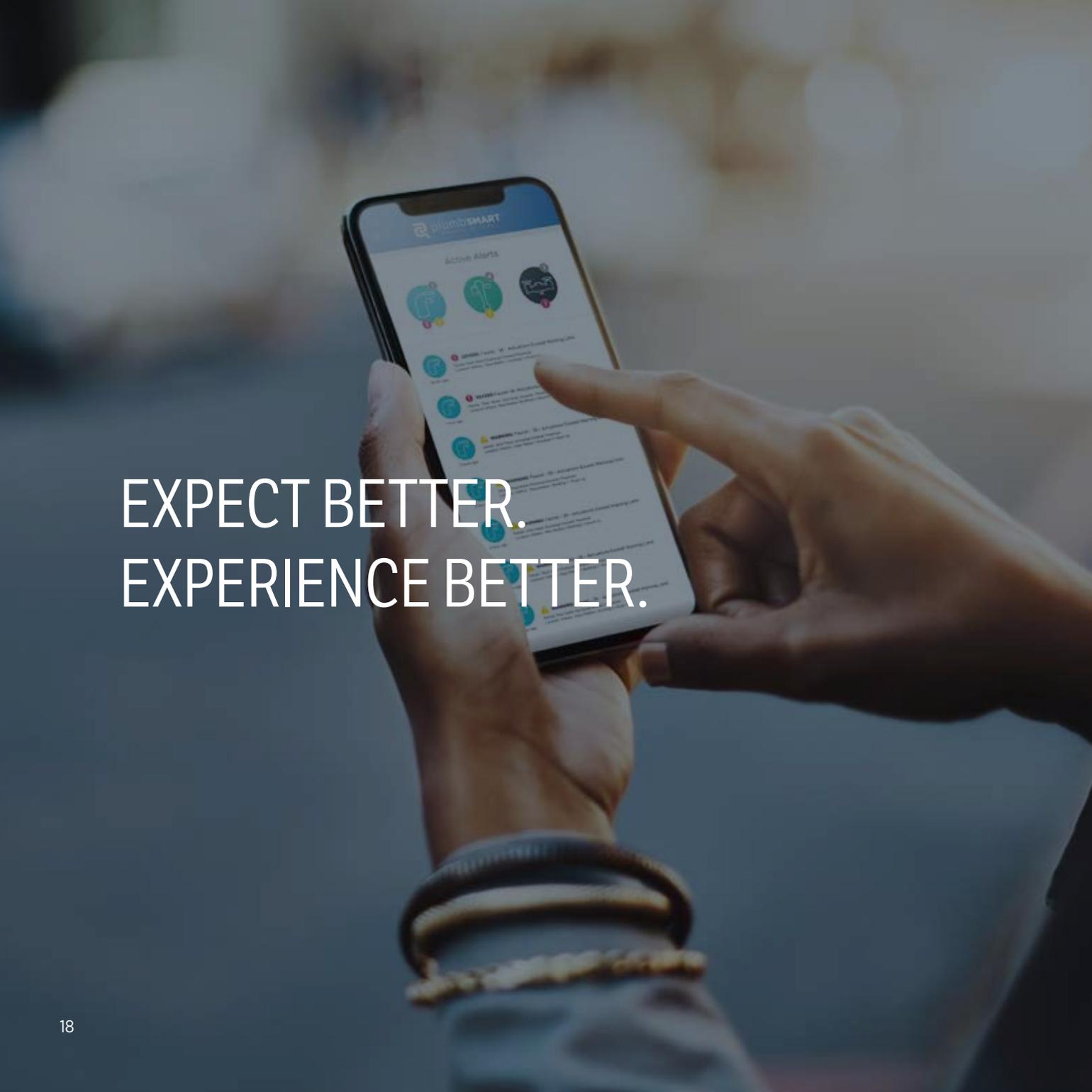
The data collected gets communicated from the sensor to the Zurn Gateway.

- Choose LAN or LTE connection
- Product data moves to secure Cloud

The secure Cloud analyzes your data to deliver real-time insights to plumbSMART.

- Log in plumbSMART
- Act on uncovered product data

Now, you can focus on what's in front of you, not what's in the back of your mind.



EXPECT BETTER.
EXPERIENCE BETTER.

Remote shutoff, alerts, insights, team permissions—what our connected backflow preventers can do make them better for you and better than the rest.

CLOUD-BASED IS PLUMBSMART

Enrich your data in the Cloud. Let's compare what Cloud-based portals, like plumbSMART, offer that competitors simply can't.

- Data to optimize your operational efficiency
- Alerts beyond discharge mode
- Access across team members
- Data past limited signal range
- Uncovered metrics or trends for continuous improvement and savings
- Built-out maintenance calendar and predictability
- Remote shutoff to prevent catastrophic flooding
- Your time back

If you are limited in what your product can do for you, it's time for a better experience.

CONNECT A BETTER EXPERIENCE





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Connect a better experience



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