

OpenBlue  
Cloud

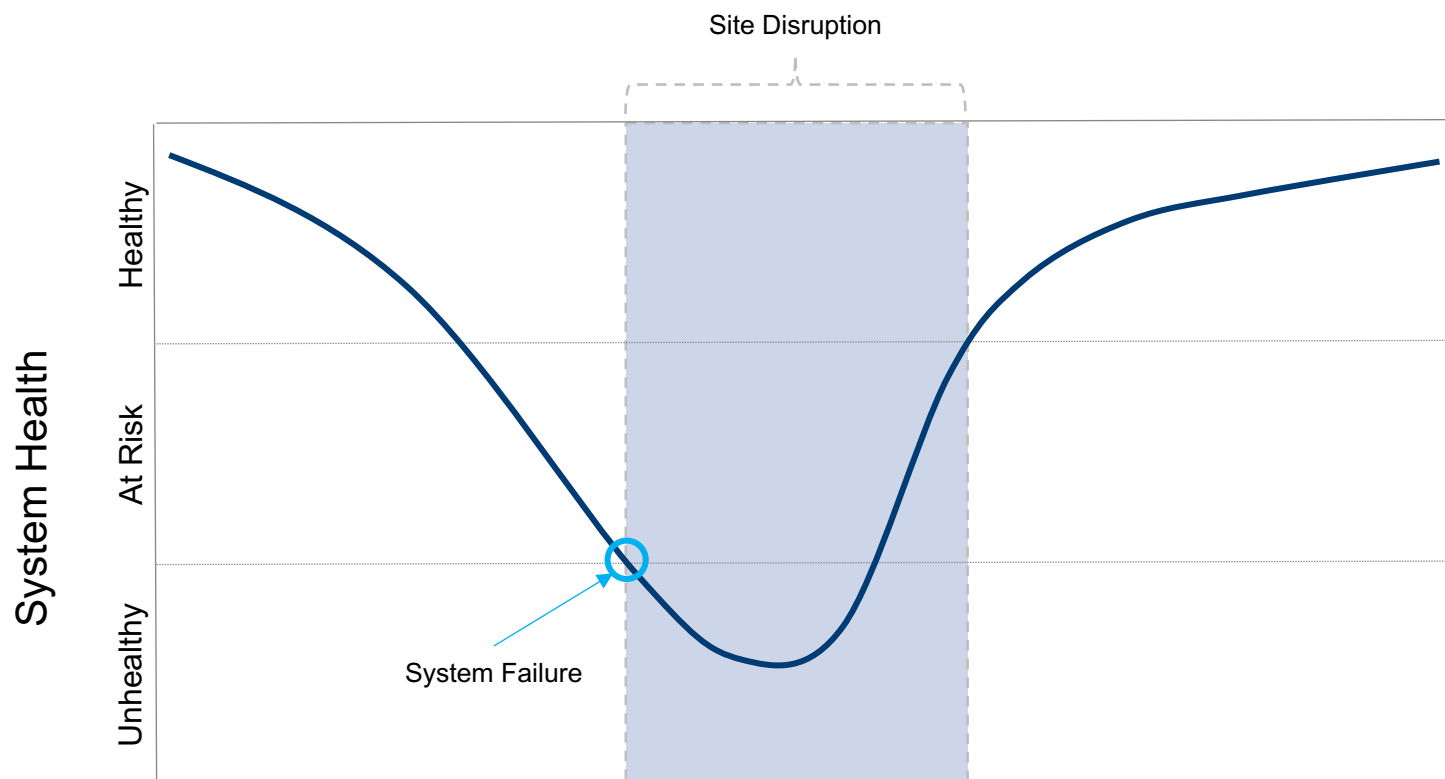


## Smart connected fire sprinkler solutions – Campus Coffee Break

Powering the blueprint of the future

The power behind **your mission**





## Reactive approach

- Expectation of system failures
- Respond to problems as they come

## Outcomes

- Costly repairs
- Disruption and inconvenience
- Negative impact to productivity and brand

System **failure** can happen **without warning** putting end-user out of compliance and **causing \$ losses** or loss of reputation (= \$ loss)!

# Benefits of a connected fire sprinkler system

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Real-time asset health monitoring



Reduce service-related downtime



Decrease annual repair costs



Proactive approach to maintenance



Increase operational efficiency



Improve risk management



# System capabilities

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	Wet	Dry	Pre-Action
Gateway	✓	✓	✓
Temperature Monitor	✓	✓	✓
Water Pressure	✓	✓	✓
DPV Monitor <ul style="list-style-type: none"> <li>Air Pressure</li> <li>Compressor Pressure</li> </ul>		✓	✓
Low Point Monitor (Water presence)		✓	✓

## Advanced notice:

- System trips
- Presence of water
- Freeze-ups
- Leaks/corrosion

# Smart Connected Fire Sprinkler System

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## Benefit features

- Real-time asset health monitoring
- Reduce service-related downtime
- Decrease annual repair costs
- Proactive approach to maintenance
- Increase operational efficiency
- Improve risk management



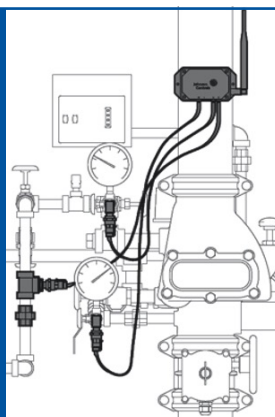
## Gateway

- A scalable cellular communications gateway for industrial IoT applications
- A cellular modem that is the central hub for all sensors in the building
- Utilizes LoRa radio technology for reliable, long range radio communication to sensors
- Cellular network removes customer security risk by staying independent of their IT infrastructure, eliminating customer IT support



## Dry/Preaction Valve Kit

- Sensors measure water supply pressure, system pressure and compressor pressure data
- Utilizes LoRa radio protocol to communicate data from sensors
- Immediately sends data if a 2 psi or two-degree change is sensed



## Low Point Kit

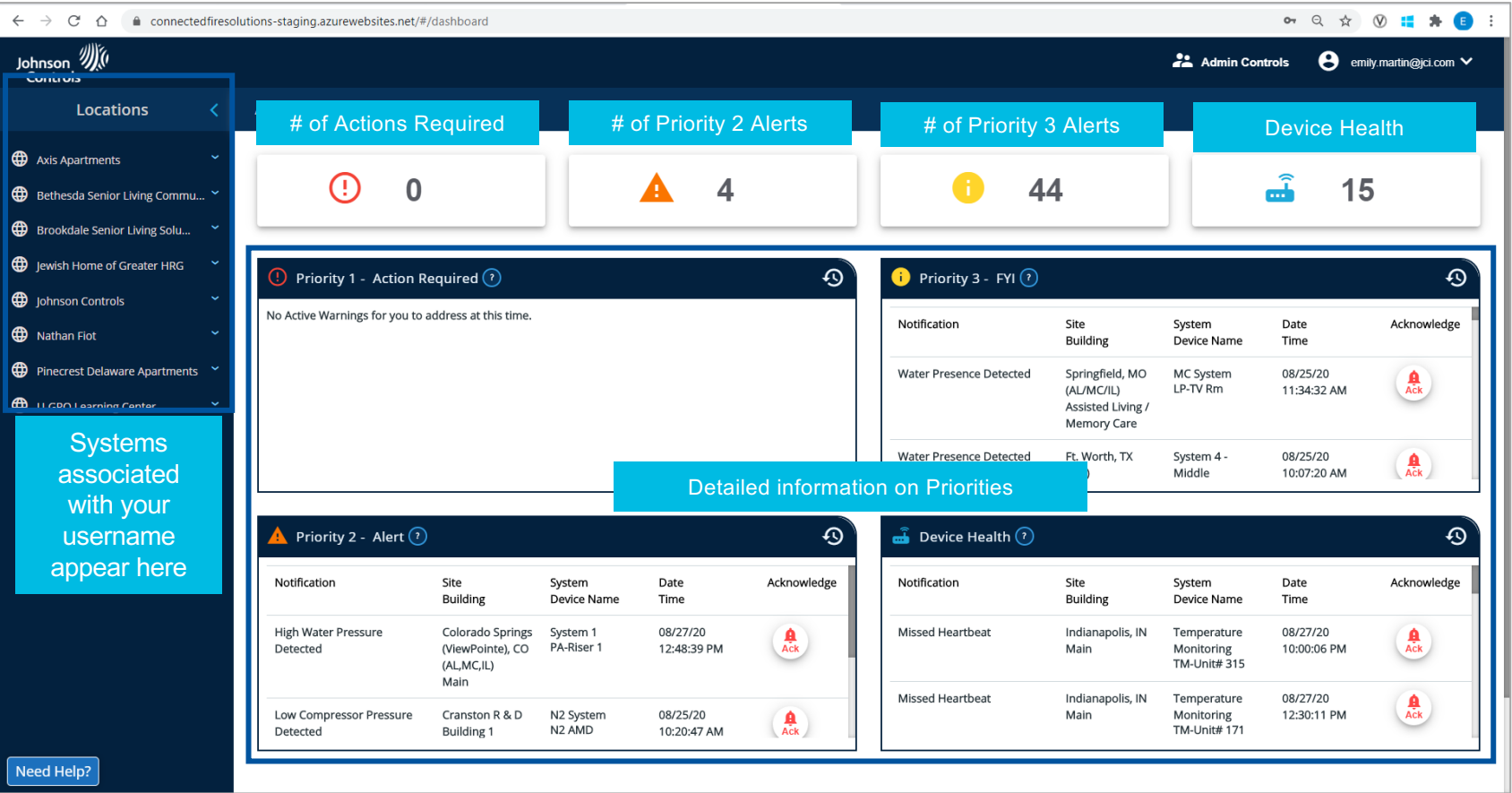
- Monitors presence of water in low point drains, temperature, as well as temperature in the pipe
- Low-profile design with one inch and one-half inch NPT pipe plug
- Integrated thermistor monitors temperature



## Temperature Kit

- Monitors pipe temperature where the temperature probe touches the pipe





- Gives quick overview of system alerts and immediate action needed
- Click on any alert to view detailed data

Johnson Controls

Locations

Axis Apartments

Bethesda Senior Living Commu...

Brookdale Senior Living Solu...

Jewish Home of Greater HRG

Johnson Controls

Cranston R & D

Building 1

Building 2

Nathan Flot

Pinecrest Delaware Apartments

U-GRO Learning Center

Admin Controls

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Configure

Shows latest recorded data point of monitored parameters

Dry System 1

DRY PIPE MONITORING

Name	Battery Status	Air Temperature	Water Pressure	Air Pressure	Compress...
DP-Riser 1	<div><div></div><div>49 minutes ago</div></div>	<div><div>73.2 °F</div><div>OK</div><div>49 minutes ago</div></div>	<div><div>74.2 PSI</div><div>OK</div><div>45 minutes ago</div></div>	<div><div>41.5 PSI</div><div>OK</div><div>49 minutes ago</div></div>	<div><div>65.5 PSI</div><div>OK</div><div>49 minutes ago</div></div>

Clicking arrow shows more detailed data

LOW POINT MONITORING

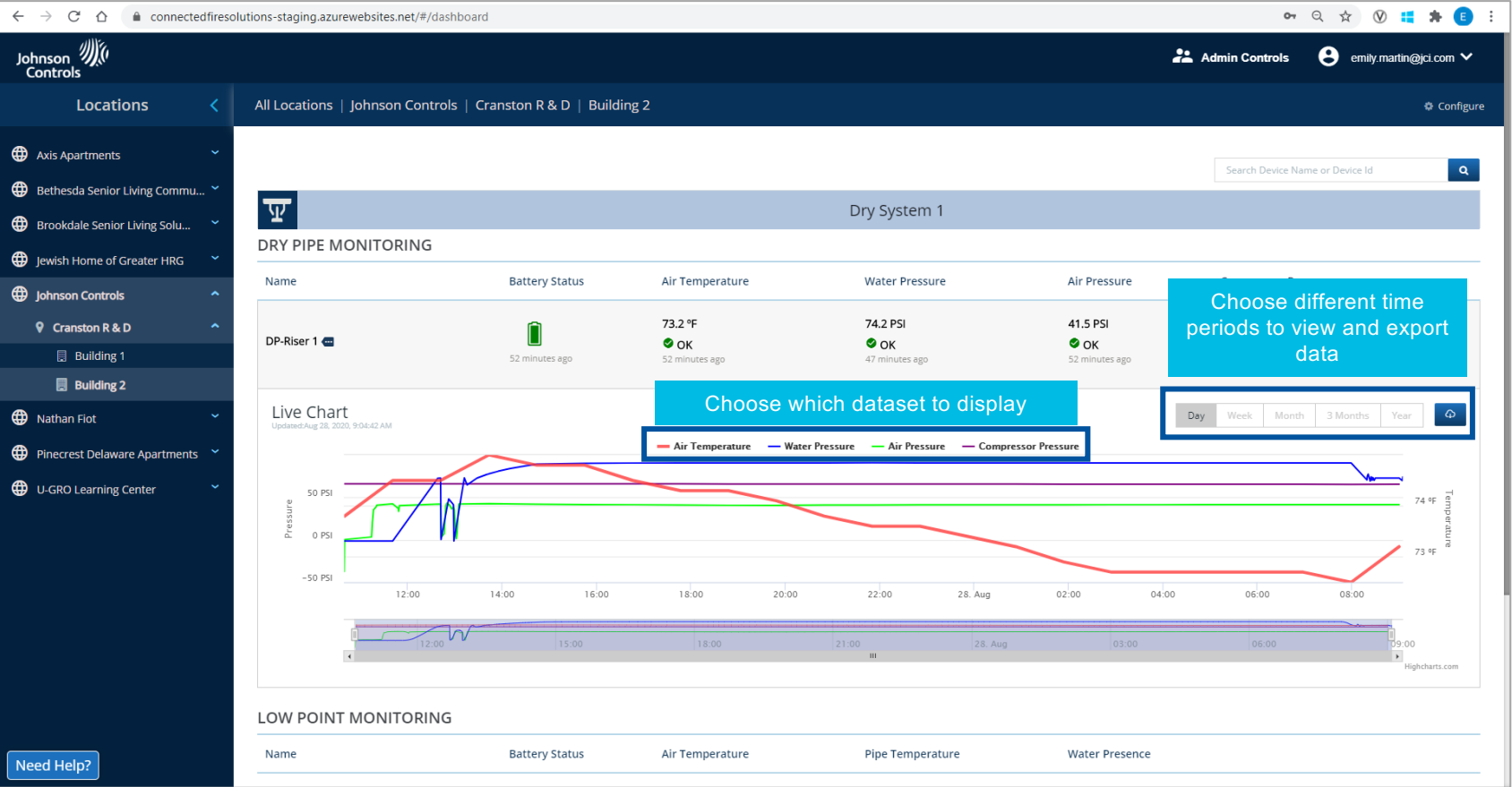
Name	Battery Status	Air Temperature	Pipe Temperature	Water Presence
LP- Pump Shed	<div><div></div><div>8 minutes ago</div></div>	<div><div>76.1 °F</div><div>OK</div><div>8 minutes ago</div></div>	<div><div>75.7 °F</div><div>OK</div><div>8 minutes ago</div></div>	<div><div>Water Detected</div><div>8 minutes ago</div></div>
LP-Riser Closet D5-1F	<div><div></div><div>35 minutes ago</div></div>	<div><div>73.6 °F</div><div>OK</div><div>35 minutes ago</div></div>	<div><div>73.8 °F</div><div>OK</div><div>35 minutes ago</div></div>	<div><div>Dry</div><div>35 minutes ago</div></div>

Indicates any presence of water in low point drain

Help feature has tutorials to walk you through how to do items

Need Help?



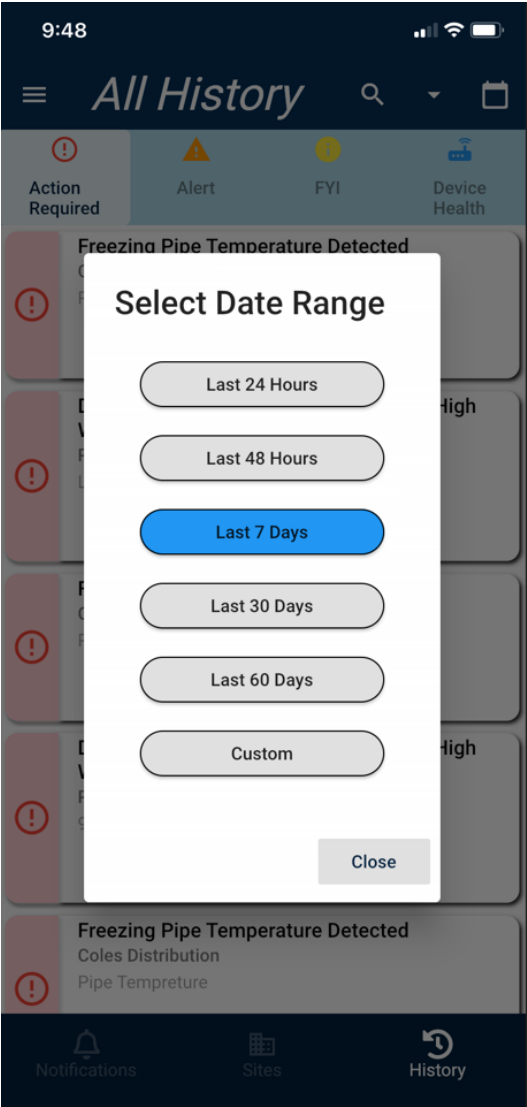
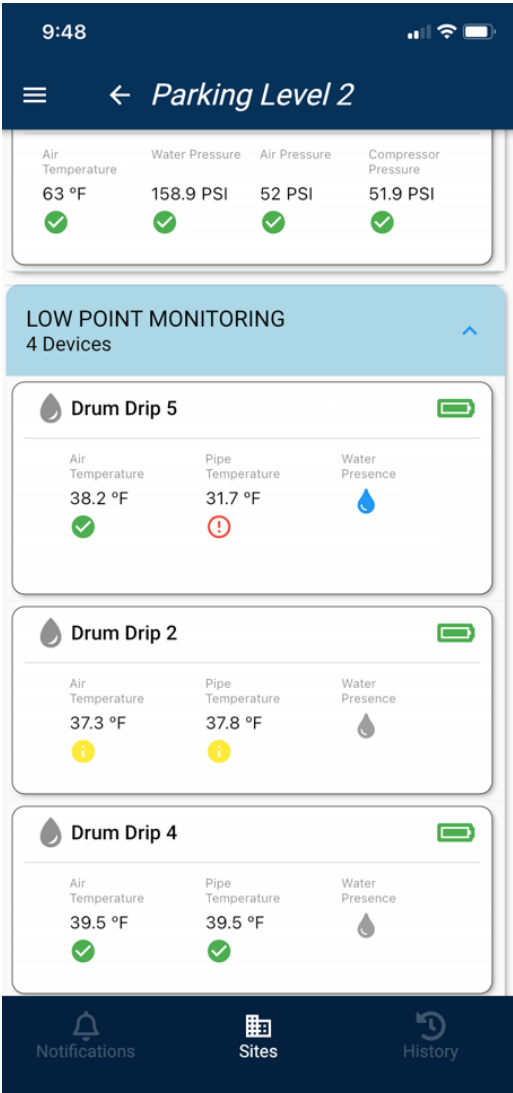
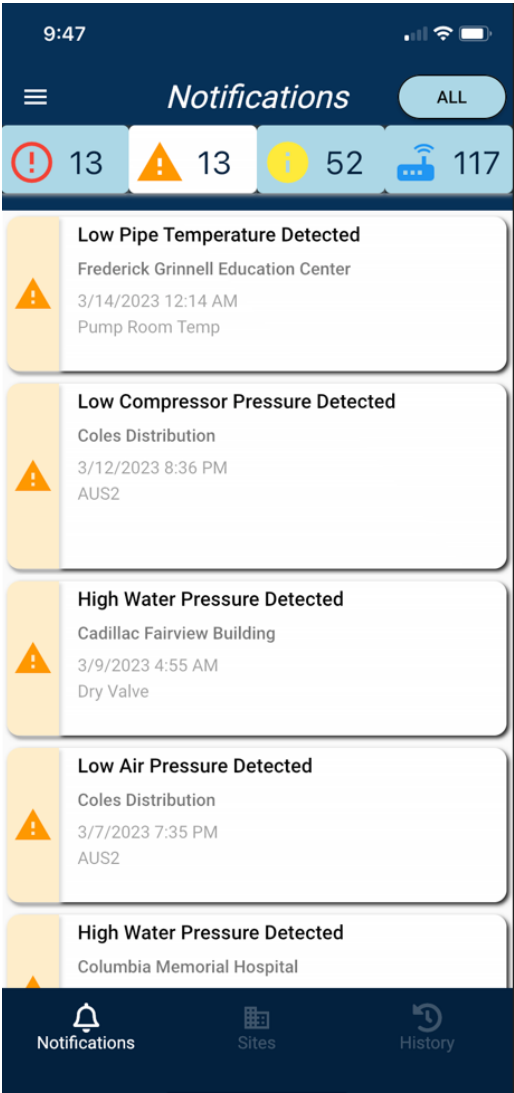


- Gives users a personalized view of their system status
- Can be used for troubleshooting and post event investigation



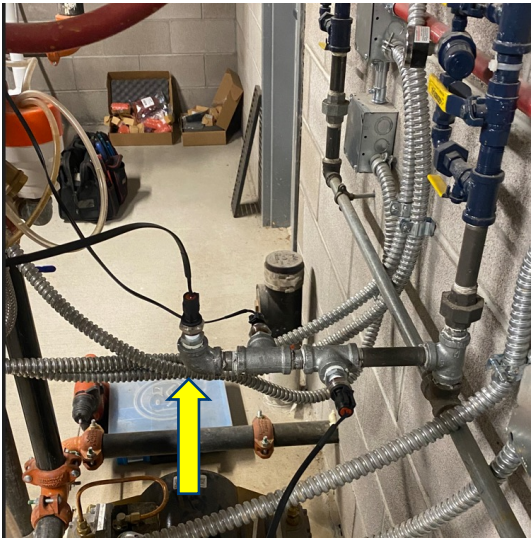
# Mobile App

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- View Alerts from Mobile App
- Investigate Specific Events
- View Multiple Sites from Single Pane Screen
- View Event History

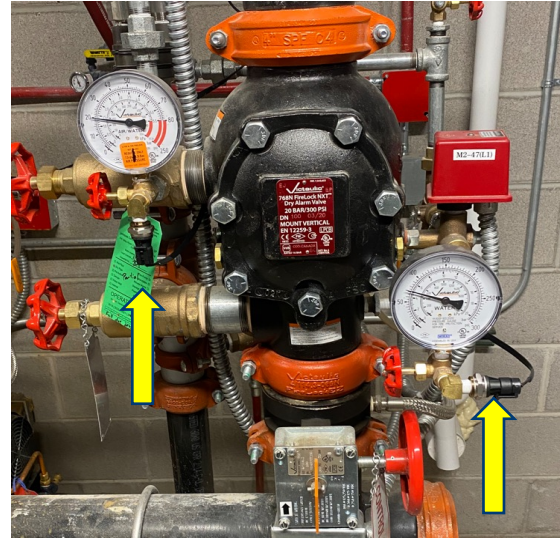
Compressor Manifold



Dry Pipe Pressure Kit



Water & Air Sensor



Low Point Sensor





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**THANK YOU!**