Sedna

Protect your building against water damage!

Don’t leave anything to chance!

Trust Sedna, your ally in condominium water damage protection.

PREVCAN
WATER DAMAGE PREVENTION ASSOCIATION OF CANADA

sinopé

Sedna

Nearly 40% of water damage is due to breakage inside the home[1]

Broken pipes, faulty dishwashers, overflowing bathtubs, leaky faucets, and old appliances—the sources of water leaks are numerous, and the **risks are multiplied** in condominiums. One leak can damage several floors, requiring repairs costing several thousand dollars.

1 https://www.protegez-vous.ca/partenaires/bureau-dassurance-du-canada/de-plus-en-plus-de-degats-d-eau

Sinopé Technologies

A wealth of innovation

Established in 2010, Sinopé Technologies is Canada's largest manufacturer of smart devices. In addition to designing innovative products, the company develops energy management and security solutions in residential and multi-residential buildings.

The Sedna Mesh system stands out as the most complete water damage protection solution for multiresidential buildings. It's your best ally in preventing property loss, significant repair costs, and higher insurance premiums.

Designed to safeguard all units and common areas, the Sedna Mesh system includes self-closing water valves, water leak detectors, a mesh gateway, and a centralized management platform. This setup provides efficient building-wide monitoring and easy access to water inlets, ensuring proactive protection against potential water leaks.

Thanks to its global approach to protection, the Sedna Mesh system ensures optimal management of water damage risks in multiresidential buildings, enhancing the safety of tenants and peace of mind for owners and managers.

Sedna

Stop water leaks at the source with the Sedna smart water valve and Sinopé water leak detectors

Smart self-closing valve

Manual opening and closing control directly on the valve

Robust and durable base reinforced with fiberglass

Removable controller for quick and easy installation

Lead-free stainless steel valve body that meets the highest quality standards

Lithium batteries for 24-hour backup power in the event of a power outage (optional)

Uninterruptible power supply for up to 24 hours of additional power in the event of a power failure

Full-port ball valve with no impact on water flow rate

Mechanical handle available for installation of ball valves in a building construction context

Sedna

Ultra-precise smart water leak detectors

Sensors can detect as little as 0.4 mm of water (0.015 in)

- Gold-plated detection electrodes to counteract oxidation

Add an accessory to the detector for double protection

- 4 ft (48 in) waterproof submersible wire probe

Detects leaks in hard-to-reach locations

7 ft (84 in) perimeter cable with full-length detection capability

Connection port to add a detection accessory

Audible alarm when a water leak is detected

Battery-powered for

24/7

surveillance

10-year battery life*
*Lithium batteries

Measures the temperature and detects risks of frost below 5 degrees

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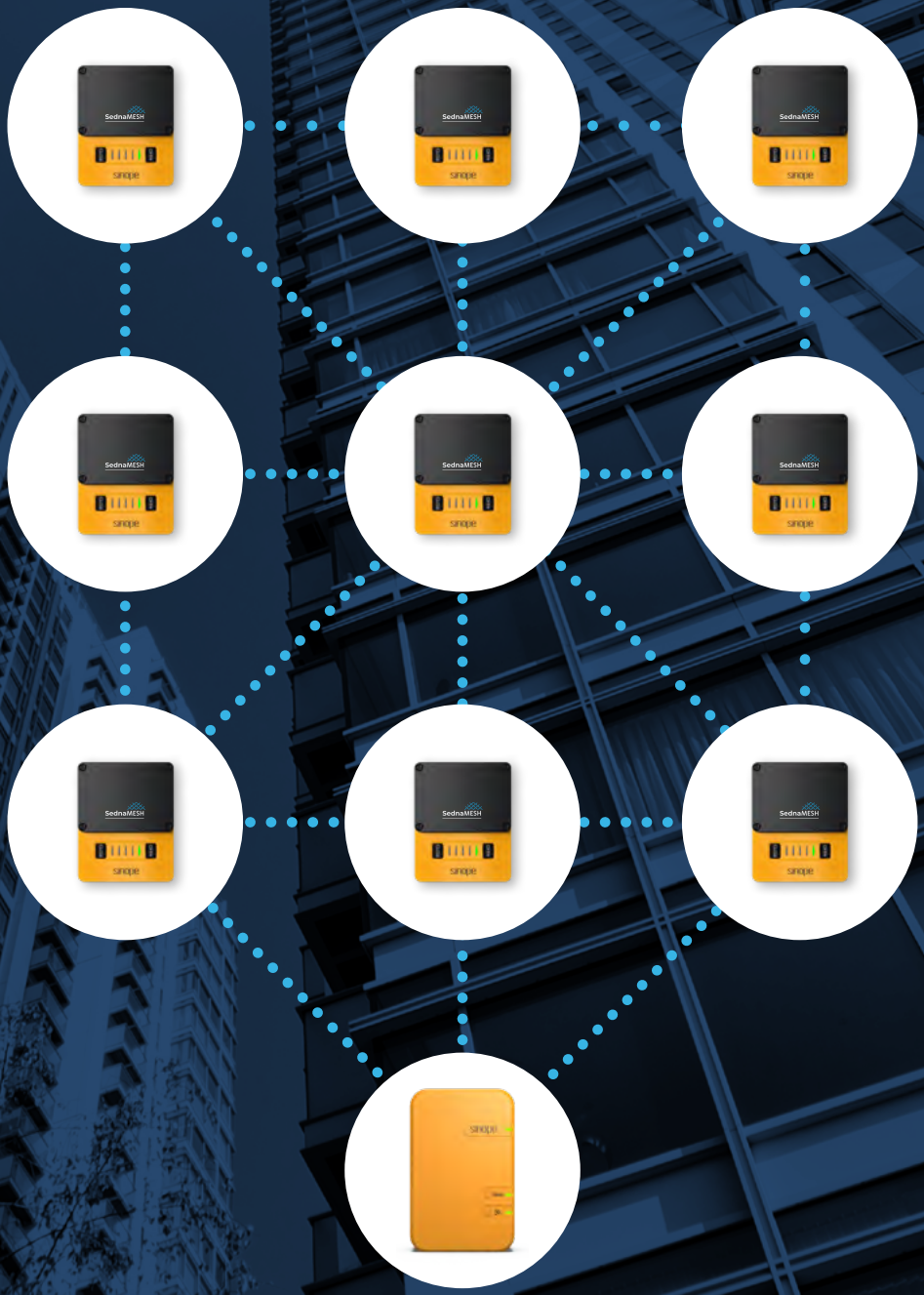

Mesh-based water damage

protection system

Meshing, a state-of-the-art technology for flawless stability
Thanks to Wi-Fi mesh technology, all Sedna valves communicate with each other and the GT4220WF-M gateway, providing increased protection and seamless signal repetition throughout the building. The Sedna Mesh system operates independently of the resident's Wi-Fi network to avoid potential interruptions and ensure proper operation at all times.

Inside each housing unit, leak detectors and other water detection devices constantly communicate with the valve, triggering its closure as soon as a water leak is detected. This swift, automated process effectively limits potential damage and prevents leaks from spreading throughout the building, ensuring the protection of your belongings.

Mesh gateway

The Sedna Mesh gateway is at the heart of the system's mesh network. It connects the system to the building's Internet connection, transmitting water leak alerts and maintenance notifications to the manager and concerned residents via the Sinopé Smart Systems platform and the Neviweb application.

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Monitor all high-risk areas

The various detector models developed by Sinopé Technologies are designed to be discreetly placed near or under appliances prone to causing water leaks. Reduce the risks by adding a Sedna valve and detectors to every housing unit.

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100% stand-alone

The Sedna valve operates independently without the need for a control panel, ensuring continuous protection for your belongings no matter where you are.

Sinopé water leak detectors offer ongoing monitoring for leaks and notify you of potential frost risks, low battery levels, or water detection.

A reliable and

proven system

Upon detecting a water leak, the signal is promptly transmitted to the Sedna valve, initiating the automatic closure of the water inlet. Additionally, an alert is sent via email and/or push notification, specifying the leak location and confirming that the situation is under control.

Optimal protection
Water detection will automatically activate the valve's closing, whether connected to the Internet or not, and even during a power outage.

Before the leak causes damage
Detectors respond to as little as 0.015 in (0.4 mm) of water, emit an audible alarm, and instantly send a closing message to the valve.

100% stand-alone
No repeater, no control panel. Only the water leak detectors and the valve are necessary for your smart protection system to operate.

Total control*
Remotely open and close the valve, check the status of your connected devices, and receive alerts for water presence, frost risks, or low batteries.

24/7 surveillance
The smart system operates continuously and sends notifications. You can check the status of devices at any time using Sinopé Smart Systems.

Quick, simple, and effective
Install the valve and position the water leak detectors. Your smart system takes care of the rest.

Detects frost risks
A notification is sent as soon as a detector senses a temperature drop below 5°C to prevent pipe breakage.

Self-check
The valve is equipped with a self-testing system ensuring proper operation at all times throughout its lifespan.

*Internet connection required

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Smart Systems

A powerful interface for managing and controlling an entire building

This centralized management platform offers an intuitive dashboard providing a global view of the status of all your building's devices. It consolidates all installed water damage protection systems in the units to simplify device monitoring and control.

Sinopé Smart Systems also empowers managers or syndicates to maintain full control of the systems and grant residents access, enabling them to receive notifications when a water leak is detected in their unit.

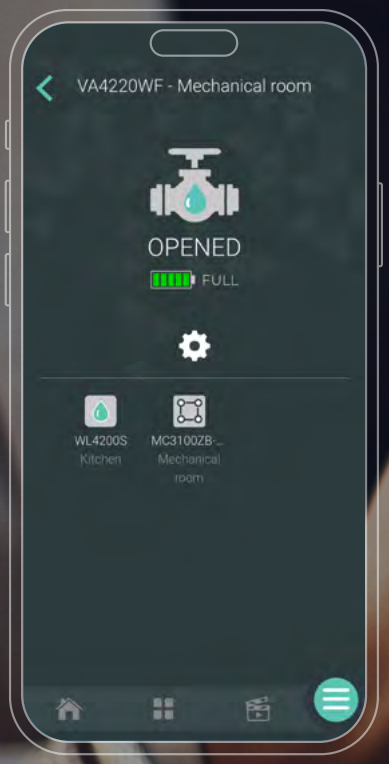
For simplified management, the platform allows:

- Continuous monitoring of the Sedna systems installed in the building
- Monitoring the battery status of the water leak detectors
- Receive alerts when a water leak is detected
- Centralized security and access management
- Centralized management of condo units
- Programmable automations
- Exporting and printing activity logs

An intuitive, user-friendly application for building residents

No need for a control panel. The Neviweb app gives residents access to their valve and device status from their smartphone or tablet. It enables them to remotely open and close the valve with a simple click and receive alerts for water leaks, frost risks, or low detector batteries.

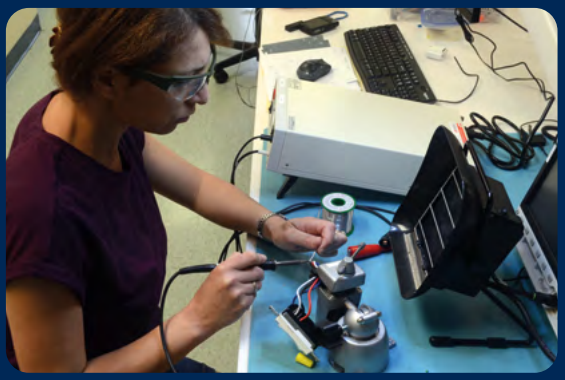
Thanks to this mobile app, residents can also proactively close their valve when leaving for an extended period, eliminating any risk of water damage in their absence.



Designed and tested

in Canada

Sinopé's team of experts tirelessly works to provide you with the most complete protection system made from high-quality, durable materials. They work with you to find the optimal configuration tailored to your needs, considering the constraints of your building and your various installations. Moreover, your Sedna Mesh system comes pre-programmed at the factory for seamless, efficient deployment in every unit.

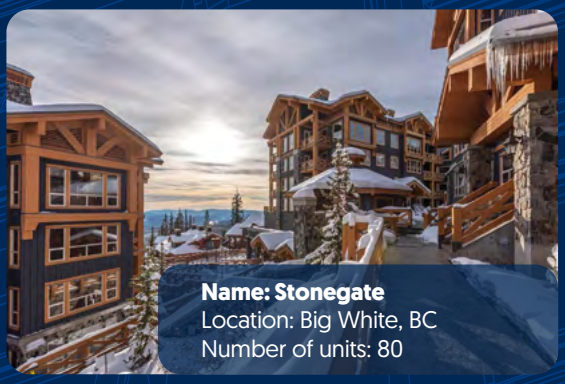


Sinopé, a partner of choice

Numerous owners, contractors, and condominium corporations trust our expertise and systems to safeguard and manage their buildings. Explore some of the buildings that have selected Sedna Mesh for their projects.

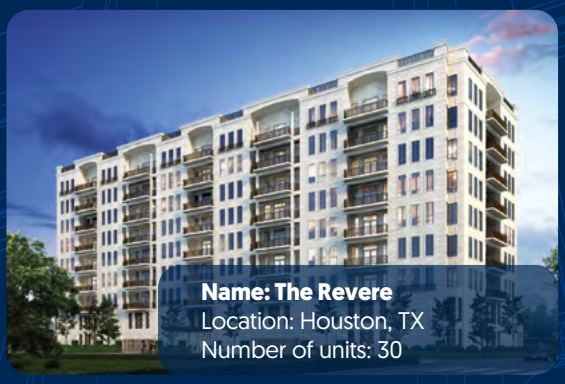
Name: Le James - Cité urbaine
Location: Laval, QC
Number of units: 239

Name: Place St-Charles
Location: Brossard, QC
Number of units: 254



Name: Stonegate
Location: Big White, BC
Number of units: 80

Name: Le Sommet 3V
Location: Québec, QC
Number of units: 586

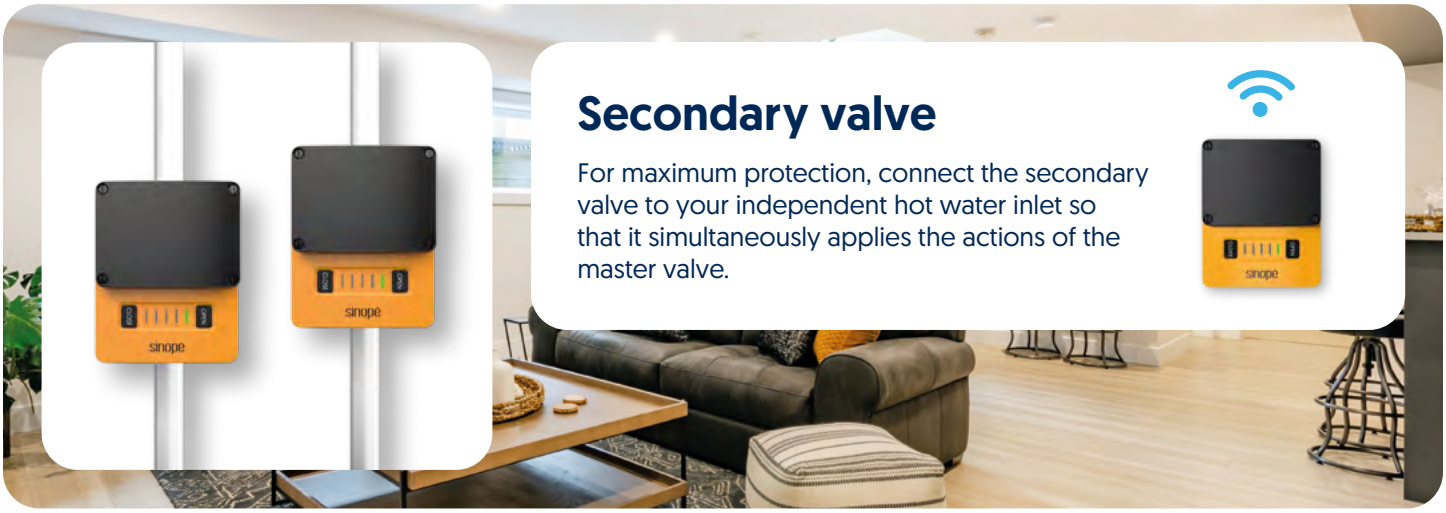


Name: The Revere
Location: Houston, TX
Number of units: 30

Name: Le Charles-Félix
Location: Québec, QC
Number of units: 68

Sedna

Surrounded by its allies, Sedna secures your home and controls leaks at the source*



Secondary valve

For maximum protection, connect the secondary valve to your independent hot water inlet so that it simultaneously applies the actions of the master valve.

Flow Sensor

Detect pipe breaks in walls or ceilings by connecting the flow sensor to your smart water valve!**

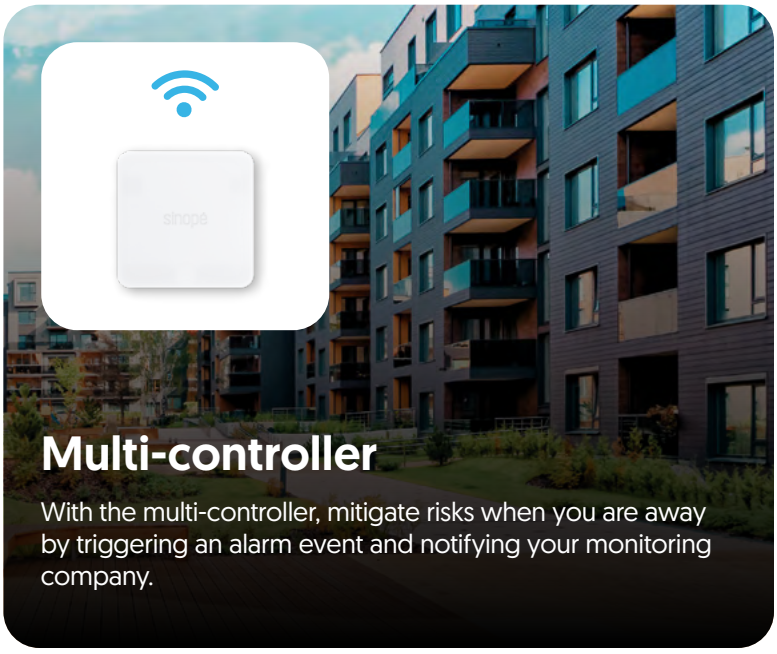
*Connected accessories communicate wirelessly with the Sedna valve.
**The flow sensor detects abnormal flow rates of 2L/min (¾ inch version) 4L/min (1 inch version).

Smart light switches and dimmers

Control the opening and closing of your main water inlet with a simple double click on the smart light switches and dimmers.

Load controller

Connect your energy-consuming appliances to a load controller to cut off their power supply when the valve closes, thus minimizing damage.



Multi-controller

With the multi-controller, mitigate risks when you are away by triggering an alarm event and notifying your monitoring company.

Smart plug

To avoid major leaks, connect the dishwasher or washing machine to the smart plugs, which will automatically turn off their power supply as soon as a leak is detected.

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Mesh smart water valve

Valve actuator
ACT4220WF-M-UPS

Ball valves
¾ po NPT: BV4220
¾ po PEX: BV4220-P01
1 po NPT: BV4221

Secondary smart water valve

Valve actuator
ACT4220ZB-M-UPS

Ball valves
¾ po NPT: BV4220
¾ po PEX: BV4220-P01
1 po NPT: BV4221

Water leak detector
WL4210-M

Remote sensor for water leak detector
AC4200S

Perimeter cable for water leak detector
AC4200C-01

Uninterruptible power supply
ACUPS-01

Flow sensor

¾ po: FS4220
1 po: FS4221

Smart light switch

SW2500ZB

Smart dimmer

DM2500ZB

Smart adaptive phase dimmer

DM2550ZB

Smart plug

SP2600ZB

Load controller

RM3250ZB

Multi-controller

MC3100ZB

Mesh gateway

GT4220WF-M

Mechanical handle

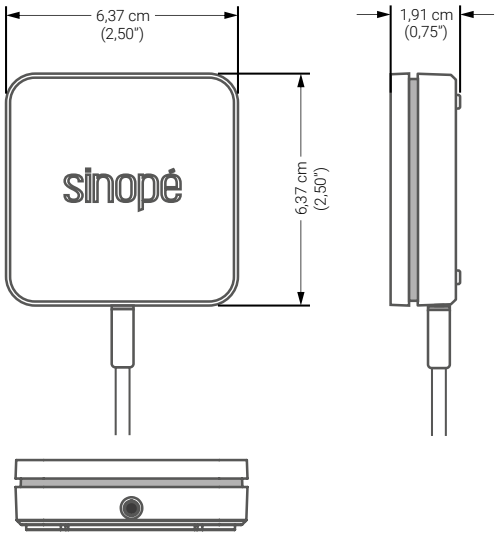
MH4200

AAA lithium batteries

550-0000-0001

Specifications

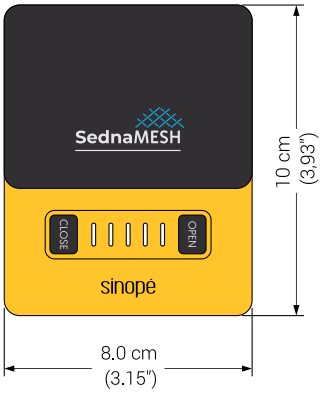
Smart water leak detector WL4210-M



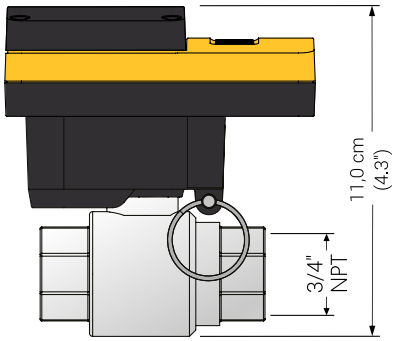
3 year warranty

Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Power supply	2 AAA lithium batteries (included)
Battery life	Alkaline batteries: 5 years in normal use Lithium batteries: 10 years in normal use
Electrode material	Gold-plated copper
Audible alarm	Water detection Risk of frost (temperature below 5°C) Low batteries
Reading frequency	Every 7 seconds
Length	Sensor: 4 ft (1.2 m) Perimeter cable: 7 ft (2.13 m)
Certifications	Compliant with IC transmitter module: 5123A-GM210P/FCC ID: QOQGM210P
Zigbee transmission	Zigbee 3.0 Frequency: 2.4 GHz Transmission power: +20 dBm Receiver sensitivity: -108 dBm Encryption key: AES-128
Accessories	Remote sensor for water leak detector AC4200S Perimeter cable AC4200C-01

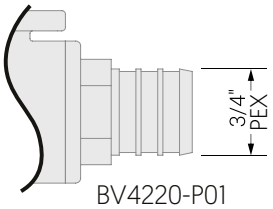
Mesh smart water valve consisting of an actuator and ball valve



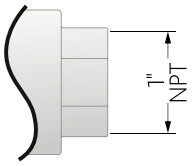
ACT4220WF-M



BV4220



BV4220-P01



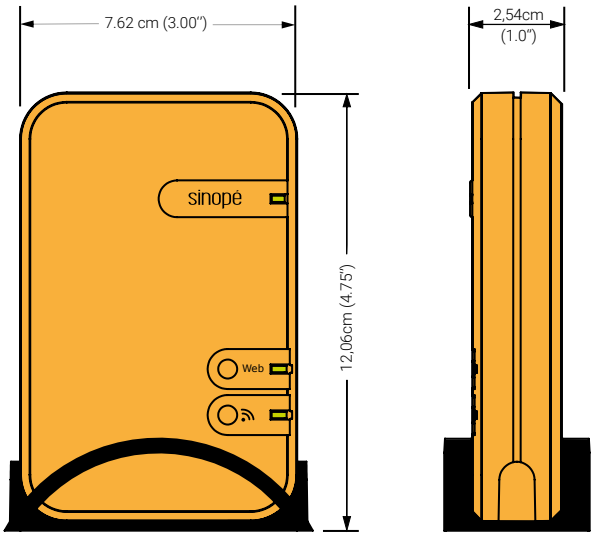
BV4221

3 year warranty

Operating temperature	1 °C to 40 °C (34 °F to 104 °F)
Maximum water temperature	85 °C (185 °F)
Storage	-20 °C to 50 °C (-4 °F to 122 °F)
Valve body	BV4220 and BV4221: stainless steel, lead-free BV4220-P01: Brass C46500, lead-free, nickel (exterior)
Actuator base	Fiberglass reinforced
Maximum pressure	145 PSI
Maximum torque	2,5 N.m
Closing time	6.5 to 7 seconds
Self-checking	The Sedna valve motor performs a complete rotation every 30 days
Engine	High-durability carbon brush motor
Power supply	5 V / 5 W (included)
Emergency power supply	Uninterruptible power supply (included) 4 AAA lithium batteries (not included)
Diameter	BV4220: ¾ po NPT x ¾ po NPT BV4220-P01: ¾ po PEX x ¾ po PEX BV4221: 1 po NPT x 1 po NPT
Certifications	Compliant with CSA B125.3-12 Plumbing fittings BV4220-P01 complies with CSA B125.14 standard Compliant with NSF/ANSI 61 Valve body tested EU RoHS 2 (Directive 2011/65/EU)
Wi-Fi Transmission	IEEE 802.11 b/g/n @ 2.4 GHz
Zigbee Transmission	Zigbee 3.0 Frequency: 2.4 GHz Transmission power: +20 dBm Receiver sensitivity: -108 dBm Encryption key: AES-128
Transmitter module	IC: 21098-ESPWROOM32 FCC ID: 2AC7Z-ESPWROOM32
Installation	Indoor only

Specifications

Mesh gateway GT4220WF-M



Operating temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage	-20 °C to 50 °C (-4 °F to 122 °F)
Power supply	120 V adaptor included
Internet communication	Wired via Ethernet cable (included) for connection to RJ45 connector. Dedicated Internet access for each gateway (each network point must be completed and tested), automatic IP assignment (DHCP), ports 80, 4549 and 4553 must be unrestricted outbound, DNS sws.neviweb.com must be unrestricted outbound and the address fw.sinopetech.com must be accessible.
Communication to main mesh valves	Protocol: Wi-Fi Standard: IEEE 802.11 b/g/n Frequency: 2.4 GHz Encryption key: WPA2
Transmitter module	IC: 22394-ZBM1501, 21098-ESPWROOM32 FCC ID: 2AK2T-ZBM1501, 2AC 7Z-ESPWROOM32
Installation	Desk support included

3 year warranty

Notes

Sedna

The first smart and stand-alone water damage protection system designed in Canada.

Contact us for a free presentation and quote!

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Smart solutions for connected buildings

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