FM APPROVED

Hub

((◊)) THE**DETECTION**GROUP

((◊))

THE**DETECTION**GROUP
Wireless Water Leak Detection

The Detection Group protects many well-known Class A commercial and residential buildings, retail stores, medical and laboratory facilities.
Find out why. Call us today.

440 N. Wolfe Road, MS# 124
Sunnyvale, CA 94085 USA
www.thedetectiongroup.com
650.215.7300

Technical Data

Part Number: DT-501
Dimensions: 5.3"L x 4.7"H x 1.6"W
Power Supply Output: 5 Volts, 2.5 Amps
Power Supply Input: 100-240 VAC, 47–63 HZ, 0.8 Amp Max
Operating Temperature: 50° – 122° F (10° – 50° C)
Battery Backup: 3.7 Volt LiPo (Lithium Polymer) Rechargeable Battery
Battery Operation: Up to 5 Days
Operating Frequency: RF (sub -1000 MHz)
Health Reporting Frequency: Every 5 minutes
Mounting Hardware and Methods: Screw Mounted, 3 x 0.2" size screw holes, Adhesive Backed Hook-N-Loop or screw mounted (zinc-plated steel)
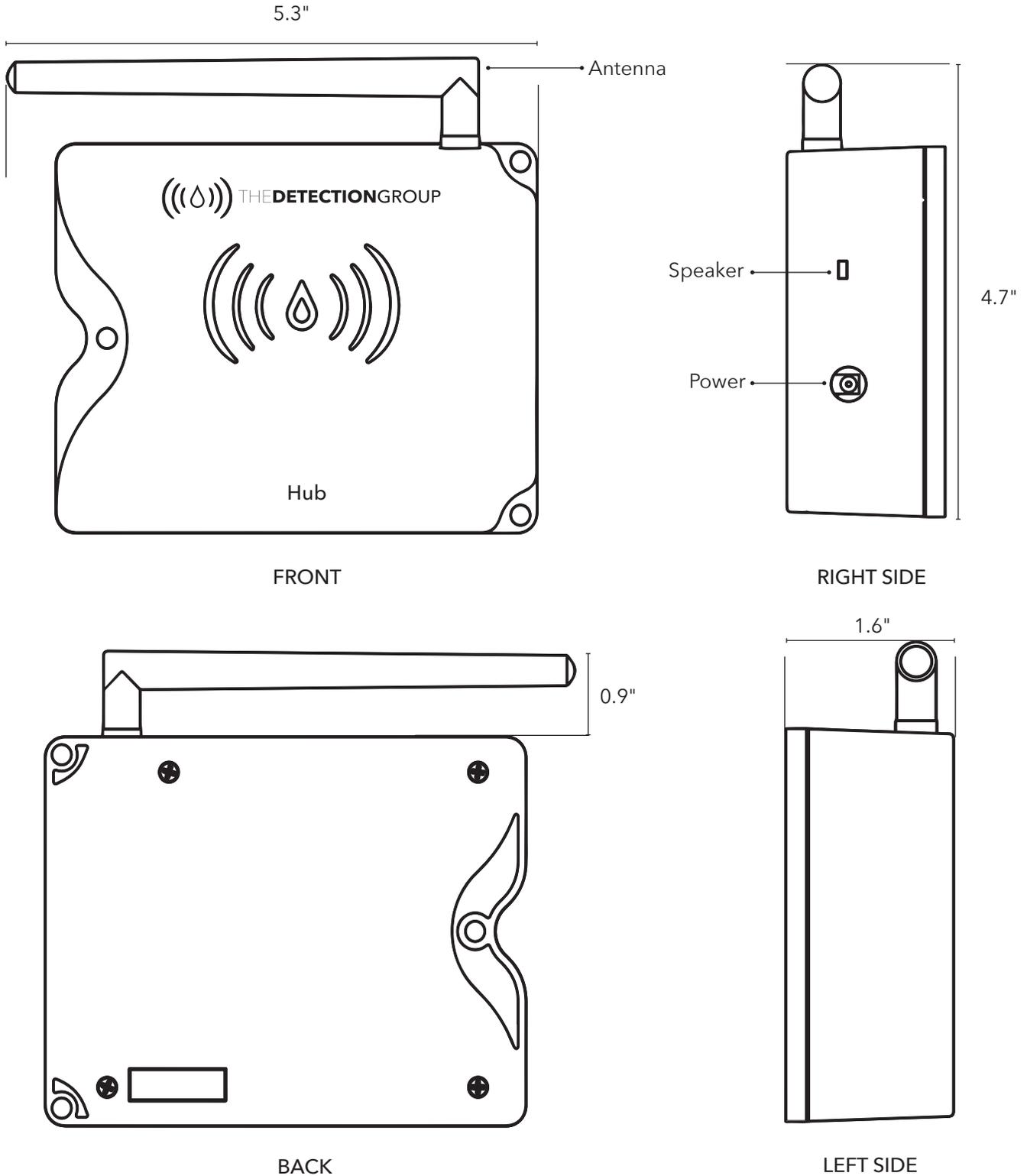**Sensors per Hub:** 120 Max or 20 valve controllers*
Certifications: UL Listed (adapter), FCC #2AK4V-DT-501, FM Approved

*Typically, a building requires one Hub per every 1-5 floors, depending on the specifics of the building and the number of sensors being supported. Hubs are located so that if one loses communication for any reason, a nearby hub will be able to communicate with its sensor and provide redundancy.

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Trident System Hub Dimensions

5.3"

Antenna

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Hub

FRONT

Speaker

Power

4.7"

RIGHT SIDE

0.9"

BACK

1.6"

LEFT SIDE

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Smart Base Station

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Technical Data

Part Number: DT-500
Dimensions: 9.4"L x 7.4"H x 2.1"W
System Capacity: Up to 400 Sensors*, 15 Hubs
Power Supply Output: 5 Volts, 5 Amps
Power Supply Input: 110–120 VAC, 50–60 Hz, 0.4 Amps Max
Operating Temperature: 50°–122° F (10°–50° C)
Battery Backup: 3.7 Volt LiPo (Lithium Polymer) Rechargeable Battery
Battery Operation: Up to 4 hours
Primary Communication Connection: Ethernet
Back-Up Communication Options: 4G Cellular (external)
Operating Frequency: RF (sub-1000 MHz)
Health Reporting Frequency: Every 60 seconds
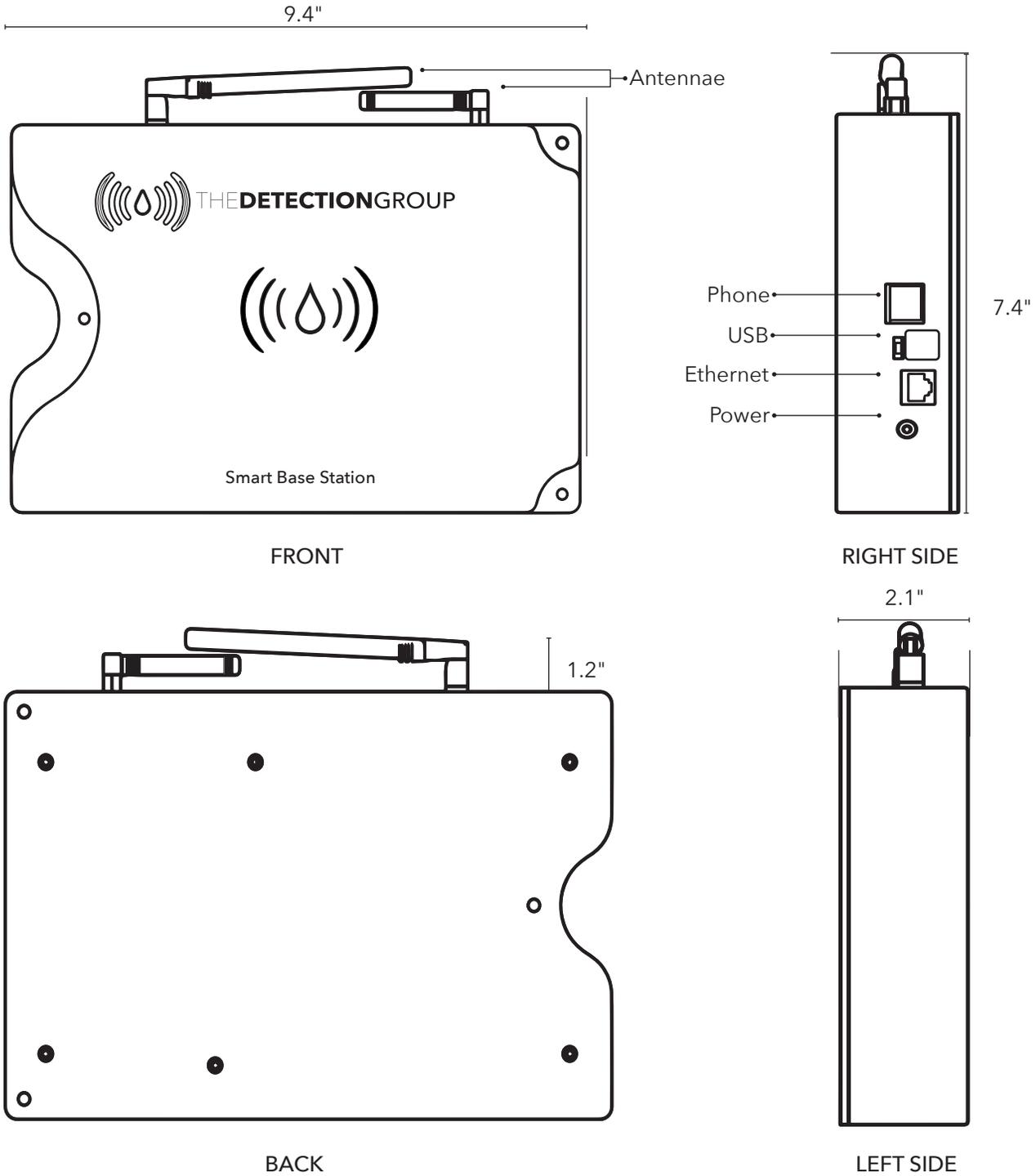**Mounting Method:** Screw-mounted, 3 x 0.2" size screw holes
Certifications: UL Listed (adapter), FCC #2AK4V-DT-500, FM Approved

*The number of sensors may vary if valve controllers are also on the same network. For design purposes, one valve controller = 12 wireless sensors on that network.

Trident System Smart Base Station Dimensions

9.4"

Antennae

THE**DETECTION**GROUP

Smart Base Station

FRONT

RIGHT SIDE

Phone
USB
Ethernet
Power

7.4"

1.2"

2.1"

BACK

LEFT SIDE

THE**DETECTION**GROUP

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Wireless Sensor

Technical Data

Part Number: DT-502
Dimensions: 3.7"L x 3.6"H x 1.3"W
Power Supply: 2 CR123 Lithium Ion Batteries
Operating Temperature: 32° – 122° F (10° – 50° C)
Battery Life Expectancy: 3-5 years depending on usage
Operating Frequency: RF (sub-1000 MHz)
Communication Range: 300 feet maximum, obstructed
Sensing Frequency: Every 15 seconds
Critical Sensor Health Reporting Frequency: Every 5 minutes (FM Approved)
Mounting Method: 1" x 2" Strip Velcro Adhesive Backed Hook-N-Loop
Certifications: FCC #2AK4V-DT-502, IC #22517, IP54, FM Approved

Sensing Probes
• 304 Stainless Steel Hooks (standard)
• Stainless Steel Springs (option)
• 22 gauge insulated stainless steel wire (option)
• N type nickel/chromium duplex insulated wire (option)

Sensor is equipped with an additional set of contacts to monitor another area for water or another low voltage signal, such as from the leak sensing cable.

Trident System Wireless Sensor Dimensions

3.7"

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Button

Wireless Sensor

Probe

FRONT

1.2"

3.6"

RIGHT SIDE

Battery Door

1.6"

0.7"

BACK

1.3"

Buzzer

Additional Contacts

1.0"

LEFT SIDE