DM DOT SENSOR

Bluetooth® Low Energy (BLE) Beacon

digital matter

- Low-power Bluetooth beacon with integrated sensors for **impact, temperature, humidity, and magnet detection** (hall effect).

- Seamless integration with Digital Matter Bluetooth Gateway devices.

- Powered by pre-installed 580mAh coin cell battery with low battery alerts.

- Easy and secure configuration via companion mobile app (Android & iOS).

Digital Matter BLE Ecosystem	'Deploy Once' Battery Life	Ultra-Rugged & Waterproof	Highly Configurable	Encrypted Configuration	White-Label & Integration Ready

Bluetooth Low Energy 6.0

Quickly detected by Bluetooth gateways.

Onboard Sensors

Accelerometer, magnet detection, temperature, and humidity sensors for monitoring movement, door open/close, and environmental conditions.

Secure App Configuration

Configure all settings using Digital Matter's Provisioning App. Prevents unauthorized access and simplifies setup.

'Deploy Once' Battery Life

Operates for years on a single CR2450 battery with low battery alerts.

Ultra-Rugged

IP68 and IK07-rated housing resists dust, water, and impact for reliable use in harsh environments.

Wire-Free Installation

Multiple installation options for securing device to asset or concealing within.

Track Longer with Industry-Leading Battery Life

Beaconing and Power	5 Seconds 2 dBm	3 Seconds 4 dBm	2 Seconds 7 dBm
Estimated Battery Life*	*Coming soon!*		

SUPPLY CHAIN & LOGISTICS | EQUIPMENT | BINS & CONTAINERS | MEDICAL | & MORE

* Pending full energy profiling. Battery life estimates are influenced by several factors including parameter configuration, temperature, installation and orientation of the device, sensor integrations, peripherals, accelerometer settings, and more. Battery life calculators are available at support.digitalmatter.com.

This device is designed, developed, and manufactured by Digital Matter. For more information, please visit our website at digitalmatter.com.

Connectivity

Bluetooth Beacon	Ultra-low-power chip with Bluetooth Low Energy 6.0
Transmission Power	7 dBm TX Power (max)

Sensors

Onboard Temperature & Humidity	The device reports temperature and humidity readings to support robust environmental monitoring use cases.
Onboard Magnet Detection (Hall Effect)	Senses when a magnet is close to the device. Attach a magnet to a door or object to detect movement or changes in position. Ideal for monitoring usage, tampering, or security events.
High-Bright LED	High-bright red LED for visual alerting on breach of sensor thresholds.
3-Axis Accelerometer	3-Axis accelerometer to detect movement, high-g events, and more.

Power

Non-Replaceable Batteries	1 x CR2450 3V, 580mAh *Battery pre-installed*
Battery Type	Lithium (LiMnO2)
Battery Life Estimates*	Coming soon!
Sleep Current	<10uA Average current in lowest power state.

* Pending full energy profiling. Battery life estimates are influenced by several factors including parameter configuration, temperature, installation and orientation of the device, sensor integrations, peripherals, accelerometer settings, and more. Battery life calculators are available at support.digitalmatter.com.

Mechanics / Design

Dimensions	59 x 42 x 13 mm (2.32 x 1.66 x 0.51")
Device Weight	20 g
Housing	Translucent enclosure allows visibility of the diagnostic LED. Enables visual alerting, such as flashing when temperature limits are exceeded.
GORE® Vent	GORE® Vent to ensure rapid detection of thermal changes.
IP/IK Rating	Ultra-rugged and waterproof IP68 and IK07-rated housing ensures the device can withstand impact, fine dust, and brief submersion.
Installation	Compact and concealable. Multiple installation options for covertly and easily securing the device to assets with screws, bolts, cable ties, rivets, and more.
Temperature Range	Operating: -30°C to +60°C Recommended Storage: 10°C to 30°C, Humidity 30%. Store in a cool, dry place.
Bluetooth Antenna	Internal

Smarts

Adaptive Monitoring	Configure parameters to enable/disable sensors and balance efficiency and sensor refresh rate.
Battery Life Monitoring	'Battery Low' alert levels.
Impact Detection	Configure impact-detection alerts when g-forces are exceeded by a user-defined threshold.
Sleep Mode	Device sleeps in between beaconing, waking occasionally to refresh sensor data. Support for sensors to remain active for alerts, allowing host SoC to sleep at a lower power.

Device Management

Configuration App	Configurable with Digital Matter's provisioning app.

Integration

Digital Matter Gateways	Effortless integration with Digital Matter Gateways.
Third-Party Integration	Sensor data can be obtained by third-party hardware via BLE Advertising Payload.

Security

Data Security	Military-grade AES-256 Encryption from device to Companion App to protect the device from being reconfigured/updated by unauthorized users.

Warranty

Manufacturer's Warranty	Two-year manufacturer's warranty. Exclusions apply.

Certifications

Please view our knowledge base for regulatory and network certifications.