

## MWH01 Bluetooth® Helmet Tag

The MWH01 Helmet Tag is a compact and versatile Bluetooth® beacon powered by the Nordic nRF52 series SoC, tailored for precise personnel tracking and enhanced safety in demanding industrial environments. Designed for both indoor and outdoor use, it excels in construction sites, chemical plants, warehouses, and other high-risk settings like underground construction. Leveraging advanced BLE 5.0 technology, the MWH01 enables real-time indoor location monitoring with 3- to 5-meter accuracy, improving operational efficiency and ensuring construction worker safety. Its rugged IP66-rated design and ultra-lightweight build, and long-lasting 3-year battery life make it a reliable piece of construction worker safety gear for harsh and dynamic work conditions.



Curved Design for a Seamless Fit



Compact & Lightweight



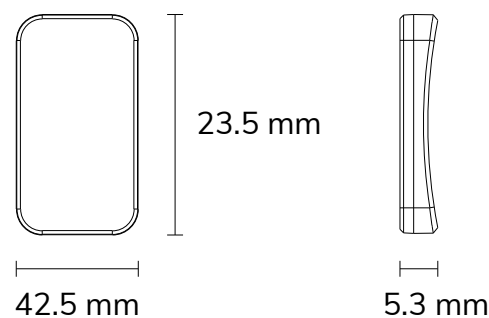
Durable Design



Custom Branding

### Specifications

|                     |                                 |
|---------------------|---------------------------------|
| Color               | White (customizable)            |
| Size (L*W*H)        | 42.5*23.5*5.3 mm                |
| Weight              | 6.7 g                           |
| IP Rating           | IP66                            |
| Battery             | CR series battery, 230 mAh      |
| Working Temperature | -20~60°C (-4~140°F)             |
| Battery Life        | 3 Years (Default configuration) |
| Application         | BeaconSET Plus                  |
| Bluetooth Chipset   | Nordic nRF52 series             |
| Bluetooth Version   | Bluetooth® LE 5.0               |
| Broadcast Power     | -40 dBm ~+4 dBm                 |
| Broadcast Frequency | 100 ms~5 s                      |
| Broadcast Range     | Up to 50 m(164ft) (open area)   |



## Application Scenarios



### Construction Sites

On large-scale construction sites, safety and efficiency are paramount. The MWH01 Bluetooth® Helmet Tag allows real-time monitoring of workers' locations, ensuring their presence in designated safe zones.



### Chemical Plants

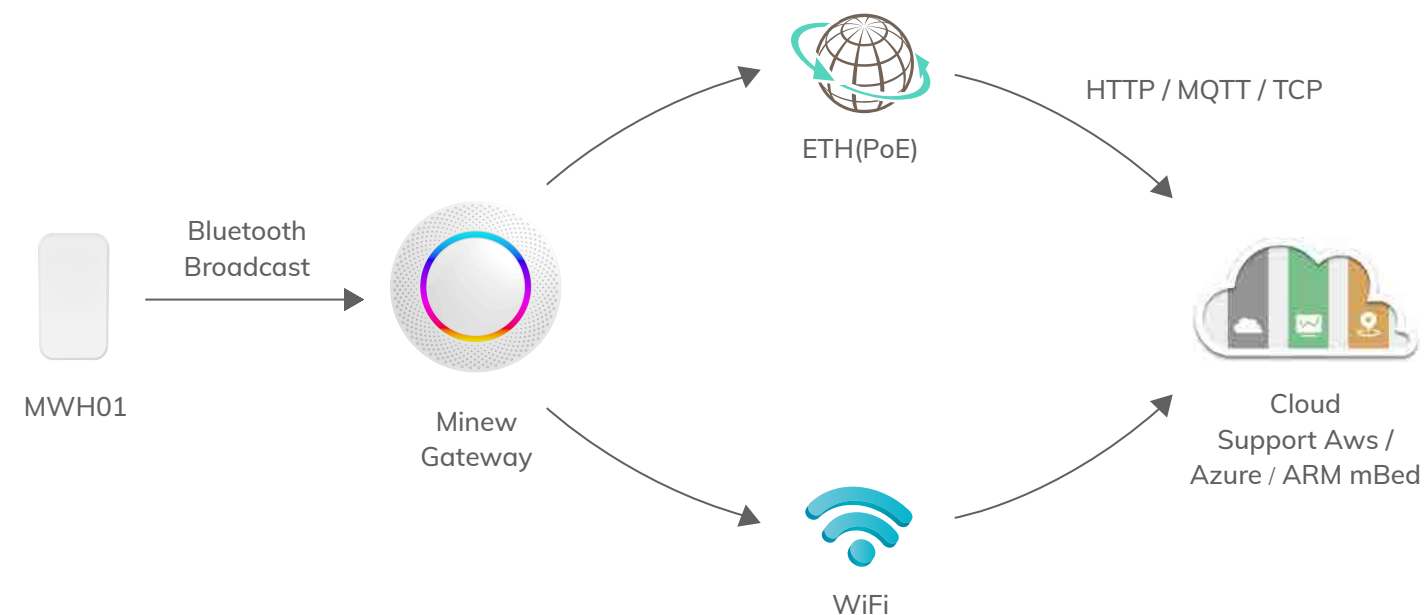
In high-risk environments like chemical plants, ensuring worker safety is critical. The MWH01 enables precise tracking of personnel to prevent accidental exposure to hazardous areas, such as zones with flammable or toxic materials.



### Warehouses

Optimize operations and ensure personnel safety in busy warehouses or logistics centers with MWH01. By tracking worker movements, the system helps streamline workflows and improve efficiency.

## How it works



- 1 MWH01 is installed on the helmets or other objects.
- 2 The signal broadcast by MWH01 is transmitted to Bluetooth signal receiver.
- 3 The received data is sent to the Cloud for real-time monitoring and emergency processing.