

• BLE SAFETY TAG · MINING & CONSTRUCTION

Personnel Tag PT-1

A rugged Bluetooth Low Energy safety tag built for the workforce on site. With a dedicated SOS soft-button, NFC and an IP67 enclosure, the Personnel Tag keeps your people locatable and protected in the harshest underground and outdoor environments.

BLE 5.0

UP TO 150 M

IP67

SOS BUTTON

RFID / NFC

REPLACEABLE BATTERY



POWERED BY 4MTRACKING

Real-time positioning for people & assets

The Personnel Tag integrates directly with the 4MTracking platform — live last-known position, signal status and alerts across tunnels, warehouses and production sites.



Technical Specifications

Two variants for every use case — PT-1 (full feature) and PT-1 Lite (slim & light).

Specification	Personnel Tag PT-1	PT-1 Lite
CASING		
Dimensions (L×W×H)	57.4 × 41.4 × 18.7 mm	42.6 × 25.2 × 8.3 mm
Material	ABS+PC & TPU	ABS+PC & TPU
Waterproof	IP67	IP67
Color	Gray	White body / Blue button
Mounting	3M tape · Velcro (helmet)	3M tape (helmet)
CONNECTIVITY		
Bluetooth	BLE 5.0	BLE 5.0
Max. Tx power	+4 dBm	+4 dBm
Transmission range*	Up to 150 m	Up to 150 m
HARDWARE		
Accelerometer	Yes	Yes
RFID / NFC	Yes	No
LED	Red	Red
Battery capacity	550 mAh	220 mAh
Replaceable battery	Yes	No
Lifespan (default)	3 years	1.5 years
Operating temperature	−20 °C ... +60 °C	−20 °C ... +60 °C
Certifications	FCC · CE · RoHS · REACH	

*Transmission range tested in open area with no obstacles. SOS soft-button on both variants.



Field-replaceable battery (PT-1). Unscrew the back cover, swap the coin cell (positive side up) and reassemble — no special tooling required.

Key Features

Designed for safety, durability and effortless deployment.

SOS soft-button — one-press emergency trigger for workforce assistance.

Rugged & waterproof — IP67 enclosure plus a weatherproof 3M sticker for outdoor sites.

Curved industrial design — fits the camber of a helmet and stays firmly attached.

Motion sensing — built-in accelerometer on both PT-1 and PT-1 Lite.

RFID / NFC (PT-1) — tap-to-configure and identity features.

Field-replaceable battery (PT-1) — swappable 550 mAh cell for long service life.

APPLICATIONS

• Underground Mining & Tunneling

Locate personnel and equipment in hazardous underground environments and improve emergency response.

• Construction Sites

Workforce safety, SOS emergency assistance and proximity awareness across the site.

• Warehousing & Logistics

Track staff and high-value equipment indoors with the 4MTracking platform.

• Lone-Worker Protection

Keep isolated workers locatable and reachable in real time.