

RANGE wear



**Improving the safety
and intelligence of
your underground
environment**

- > Precision location and proximity
- > Rechargeable battery
- > Multi-function LED
- > Vibration/audible alerts
- > Onboard motion sensing

RANGE

wear

MST Global's RANGE Wear UWB tag is a rugged, battery powered tracking and safety tag.

Rugged and battery powered, MST's **RANGE Wear** UWB tags can be attached to personnel, assets, mobile equipment and vehicles, or added onto Cap Lamps for added protection against loss or damage. The tags include an emergency button and onboard IMU to detect Man-Down, and include a buzzer and vibration to alert the wearer when required. The tags are battery operated, and give a visual indication of remaining battery level and nearby proximity alerts.

When used in conjunction with MST's **Axon Air Series 2** UWB Wireless Access Points, and **RANGE Link** location anchors, they enable tagged items to be accurately positioned in real-time, in any mining (open pit to underground) or tunnelling environment.

Tag status and distances are received and processed by MST's **HELIX** enterprise software platform engine, keeping infrastructure costs low and installation simple. The UWB protocol allows accurate positioning at choke points, between vehicles and other assets, and presence within geofence boundaries.

SPECIFICATIONS

FEATURES

- > Flashing RGB LED, Vibration/Audible Buzzer
- > Multifunction button supports SOS, Ack
- > Accel/Gyro IMU supports "man-down", orientation/velocity tracking, inertial navigation
- > On-board processor, supports on-board storage
- > Remote Firmware Updatable
- > Can be worn on lanyard, belt pouch, high-vis vest, or hard hat bracket
- > NFC compatible
- > Configurable location update rate up to 10 Hz

UWB RADIO

- > Channels: Ch 5 (6.5 GHz)
- > Standard: 802.15.4z
- > Range: Up to 150m (450 ft)

BLE RADIO

- > BLE v5.3
- > Supports both Eddystone and iBeacon
- > Transmit Power: up to +3 dBm
- > Range: 300m using BLEv5 Coded-Phy

ELECTRICAL

- > Rechargeable Battery: 3.7V, 1050mAh Lithium
- > Battery run time: up to 72 hours (depending on update rate)
- > Compatible with existing MST charging cradles

MECHANICAL

- > Size (LxWxD): 75 x 54 x 22 mm (3.0 x 2.1 x 0.9 in)
- > Weight 85g (3 Oz)
- > Temperature: 0°C to +45°C (32°F to +113°F)
- > IP67

AGENCY APPROVALS

- > Radio: FCC part 15 (pending)