Personnel Tag

Personnel & Asset Tracking

WHAT IS IT?

The AMR PEMCO personnel and asset tracking tag is designed to operate with multiple types of systems in underground mining or tunneling environments. Available in several versions, including non-AMR PEMCO solutions, it is capable of working with any IEE802.11b/g, 2.4GHz Wi-Fi network such as the Mine Net™ Mesh platform, or for two-way synchronous ranging applications such as AMR PEMCO's Collision Avoidance Protection System (CAPS).

Single system, and dual system, configurations are available for a variety of projects. The dual version simultaneously broadcasts at 2.4GHz and 3.5GHz for customers using a Wi-Fi based tracking system such as our Mine Net™ Mesh platform, and utilizing precision tracking for Ventilation-On-Demand (VOD) solutions, the AMR PEMCO Zone Acquisition Device (ZAD), or the AMR PEMCO Collision Avoidance Protection System (CAPS).

The tag can be displayed by personnel in a variety of ways using either the integrated clip, inside an accessory pouch worn on the waist or helmet, or simply placed inside a vest/chest pocket. The broadcast transmission rate of any version is adjustable at the factory, or by trained service technicians for greater flexibility and battery life.

SPECIFICATIONS	
Enclosure Rating	NEMA 4X, Molded Plastic
Operating Voltage	3.6 VDC
Operating Life	50 - 240 hours based on transmission rates
Operating Temp	-40 to 85 C
Dimensions	10.16 cm x 4.45 cm x 2.08 cm (4" x 1.75" x 0.82")
Weight	108 g (3.8 oz)
Frequency Options	2.4 GHz IEEE802.11 Wi-Fi, and/or SHF 3.5 GHz
Typical Transmission Range (LOS)	Wi-Fi - 182m (600 FT) SHF – 76m (250 FT)
Communication Options	IEEE 802.11b/g
Address Range	TCP / IPv4
Gain	1.6 dBi
Power Output	+ 18 dBm
Display	Bi-Color LED Indicator
Battery Type	Lithium-Ion, 1500 mAh
Battery Life	8 - 10 Years based on charge cycles
Charging Port	USB Mini-B
Warranty	12 months

FEATURES AND BENEFITS

- Versatile use and wearable options
- Up to 240 hours of continuous operation depending on broadcast rate
- IPv4 Addressable supporting thousands of tags per system via TCP/IP protocols
- Rechargeable with 8-10 year battery life
- Single transmission versions available for:
  - IEEE 802.11b/g Wi-Fi
  - Two-way synchronous ranging for Ventilation-On-Demand (VOD) or the Collision Avoidance Protection System (CAPS)
- Dual tag versions available for continuous Wi-Fi tracking, and Ranging for precision applications such as Ventilaton-On-Demand (VOD)

CONTACT: +1.276.928.1712
sales@amrpemco.com
www.amrpemco.com