

HEALTH EFFECTS OF USING LONER DEVICES

SPECIFIC ABSORPTION RATE

Your employer has asked you to wear Loner® safety monitoring technology to help ensure your wellbeing when working alone. Loner monitoring devices can automatically trigger a safety alert that empowers your monitoring team to manage an emergency response to your precise location—even if you're working indoors.

Loner devices incorporate wireless communications and advanced positioning technology to report a safety alert and pin-point your location on a Google map. By incorporating a wireless radio, Loner devices transmit data periodically in a similar fashion to a smartphone or satellite phone.

Loner devices are tested to ensure their compliance to regulations regarding the radio signals they communicate, while also ensuring that there is no interference with other electronic equipment.

Use of mobile phones has caught the attention of consumers and the media alike due to concerns of possible health implications of using technology that broadcasts radio signals close to a user's body.

To minimize any potential health effect, regulations are in place that limit the exposure of users to signals. This test, referred to as Specific Absorption Rate (SAR), is performed at an accredited lab with sophisticated measurement instruments. Loner devices are tested and comply to such SAR requirements to ensure they transmit signals in compliance with regulations.

Loner devices make use of data communications, sending very small data packets to Blackline's safety monitoring infrastructure. Transmitting these these data packets takes only a small number of microseconds (millionths of a second) to send. Comparatively, smartphones are regularly used for data-intensive applications such as checking social media, video streaming (such as cat videos), email correspondence and accessing the Internet. Smartphone data volume is normally measured in several megabytes while Loner M6 data messages is measured in bytes, leading to a significantly less amount of transmitted energy.



The Loner M6 and Loner M6i now feature a two-way speakerphone that enables two-way voice communication with your monitoring team

Loner M6 and Loner M6i both feature optional two-way voice call capability that enables the user to speak directly to the monitoring team. This functionality works the same way as a mobile phone is used for voice communications.

Two factors result in less overall energy transmission during a Loner voice call compared to a mobile phone call. First, safety alerts are triggered less frequently, resulting in fewer voice calls to monitoring personnel. Second, each call with monitoring personnel is normally shorter in duration than a typical mobile phone conversation. The cumulative amount of energy transmitted during a call by a Loner device is significantly less than that of a mobile phone or smartphone.

With relatively infrequent data communication, small data packets and infrequent, short voice calls, Loner devices transmit significantly less energy than use of mobile phones and smartphones.

If you have any questions about use of your Loner device, about SAR testing or wish to receive a copy of a Loner SAR test report, contact Blackline's sales engineering team using the contact information below.

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