

A647BT Wireless Bluetooth Headphones for the CSI 2140

“The new wireless headphones for the CSI 2140 analyzer are actually better than the corded headphones for the CSI 2130. These headphones complete the CSI 2140 system and truly have the audible diagnostic capability of the CSI 2130.”

- Senior reliability engineer at mining and steel facility.

Reliability engineers rely on a variety of data and technologies to diagnose machine health problems that could impact production and availability. One growing trend that we are seeing reliability engineers use is to listen to the vibration data while they are collecting their vibration routes. Listening to the machines provides another sensory technique to assess machine health in addition to a visual inspection as well and seeing the vibration data on the CSI 2140 display. Technicians often ignored listening to the machines as a diagnostic tool in past because the wire from the headphones to the analyzer can be cumbersome and pose a safety risk in the plant environment. However, the Bluetooth capability of the CSI 2140 combined with the A647BT wireless Bluetooth headphones offers all the diagnostic benefits of listening to the machines without the safety risks and inconvenience associated with older wired headphone/vibration analyzer offerings.

The sounds coming from machines often provide important clues that may be missed by relying on vibration data alone. The Bluetooth technology in wireless headphones provides a cordless, comfortable solution to hearing machine faults.



The A647BT wireless Bluetooth headphones can be worn comfortably with a hardhat and the 23 db NRR will serve as hearing protection. The 20KHz frequency range of the A647BT headphones combined with the multiple filter selections in the CSI 2140 allows the user to isolate and identify sounds from the higher frequency bearing and gear faults in the diagnostic process. Wireless headphones also provide additional benefits such as:

- Reinforcing satisfactory sensor connection,
- Obtaining better measurements,
- Ability to compare and recognize good and bad machines,
- And catching elusive issues.

Reliability analysts and technicians of all levels should utilize the A647BT wireless headphones with the wireless Bluetooth module of the CSI 2140 to have another sensory tool to diagnose the health of your machines.

Note: The Bluetooth wireless module of the CSI 2140 and the A647BT Bluetooth headphones are only available in countries where the wireless approval has been obtained. Please contact your local Emerson sales representative to inquire if they are available in your country.

Specifications	
Range	10M or approx. 30 feet
Bluetooth	4.0, A2DP
Dome Type	Circumaural (Behind the Head)
Sound Reproduction	High Fidelity
Frequency Range	20 Hz -20kHz
Battery Life	Up to 80 hours of continuous listening Up to 140 hours standby
Charging time	6-7 hrs.
Operating Temperature	-4°F to 113°F (-20°C to 45°C)
Storage Temperature	-4°F to 113°F (-20°C to 45°C)
Power Requirements	5V @ 500mA nominal
Battery Type	3.7V 1000mAh Li-Polymer
NRR Rating	23 dB
Spectrum Approval	FCC, IC, CE, C-Tick (pending)
RoHS compliant	✓
Warranty	One year

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