

BoltSafe

Load Measuring Systems



Product sheet | BLE-node

Phone +31 (0)24 6 790 797 | E-mail info@boltsafe.com |

Website www.boltsafe.com | Address Platinawerf 8, 6641 TL, Beuningen, The Netherlands

How does the BLE-node work?

With the BLE-node we offer a plug-and-play standalone logging device for our BoltSafe CMS sensors. BLE stands for “Bluetooth Low Energy”. It can store bolt load data of 1750 measurements on its internal memory. And when it is connected to a Windows device with a Bluetooth connection, you can create a real-time plot of maximum 4 BLE-nodes simultaneously.

The BLE-node offers a very long battery life of approximately five years. This makes the BLE-node extremely useful for rotating or moving applications. With our free accompanying “BoltSafe Connect” software, you can change the log interval or download the stored data from all BLE-nodes within a range of 100 meters (free sight) in one action. Our team is happy to help you out to make sure that your wishes can be realized.





How is the BLE-node used?

Connect the BoltSafe CMS sensor to the BLE-node and set the log interval with our Windows software through a Bluetooth connection. After the testing period with the same Windows software, the logged bolt load data can be downloaded to a CSV file in kN (Kilonewton) or lbf (Pound-force).

The sensor temperature can be logged simultaneously. When the BLE-node is connected to a Windows device, it is also possible to make a real-time plot of maximum four sensors. This data can also be stored in a CSV file.



Technical data BLE-node

Wireless Technology	Bluetooth® 5.2 Low Energy
Configuration	Through Bluetooth with free Windows software
Software	Can set the log settings, read the memory (CSV file) and make a real-time plot of the connected BLE-nodes
Measuring	Bolt load [kN/lbf] and temperature of a BoltSafe CMS sensor [°C/Fahrenheit]
Storage	- 1750 measurements excluding temperature - 1200 measurements including temperature
Measuring interval, logging	Adjustable per minute, minimum 1 minute interval
Measuring frequency, real-time plot	10 measurements per second

Physical Characteristics

Temperature range	-30°C to +70°C
Battery	3,6 VDC - 4.000 mAh - Li-SOCL2 - ER18505
Battery life	4 years during data logging (real-time plot much shorter)
Sealing	IP67
Material	Polycarbonate
Weight	228 gr
Dimensions	80 x 92 x 47 mm
Installation	- Direct on steel with magnets in the back - Wall Mount with supplied brackets
Connection	M12x1, 5P, Female connector (BoltSafe CMS standard)

