SEQUOIA

SMART SOLUTIONS FOR VIBRATION MONITORING

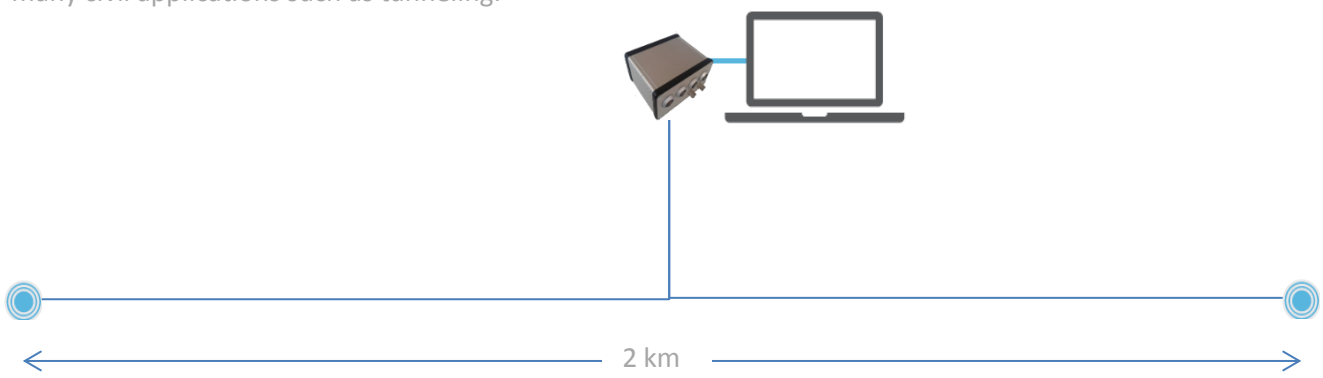
GEA System

Dedicated Sync Hub to enhance GEA applications

When monitoring wide structures such as bridges, dams and high-rise buildings, it is important not only to assure that the vibrations do not exceed user-defined thresholds but also to synchronize data from several sensors in order to perform advanced analyses such as modal testing, even in permanent monitoring systems.

This target is accomplished by the Sync Hub. Furthermore, the product is able to power up the GEA sensor for very long distances (up to 1 km) without any data loss.

This solution is unique and brings several technical and economic advantages in many civil applications such as tunneling.



Technical Specifications

Power Supply:	USB[1] /12 Vdc
Number of Sensors:	4
Expandability:	Up to 4 daisy-chained modules
Sensor Time Delay (max):	5 µs[2]
Module Time Delay (max):	5 µs[2]

[1]For cable length up to 30 m, one module can be powered directly by the USB port of the PC. For longer cable lengths or connection of more USB modules powered Hubs must be used.

[2]This condition is assured, if sensors are connected with cables of the same length.

ORDERING INFORMATION

The Sync Hub is available in two versions, one for installation within monitoring boxes, and one for direct connection to the PC.

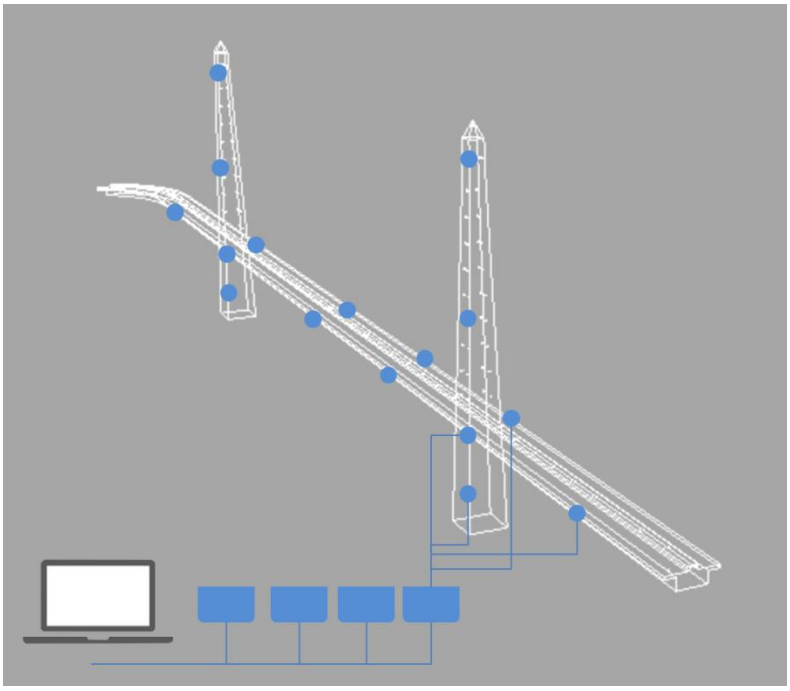
Items	Description
GHF-000100	Sync Hub for PC
GHF-000200	Sync Hub for Monitoring box

ADVANCED TESTING

The Sync HUB allows:

- Synchronizing different sensors connected to the same central unit;
- Using cables with very long distances (up to 1 km).

For these reasons, GEA is the right choice for the monitoring of wide structures, since data should be both for modal analysis and for Structural Health Monitoring.



SEQUOIA IT SRL
Via L. Einaudi 25, 10024, Moncalieri (TO) – Italy
T: +39 011 6402992 – F: +39 011 6402985 – E-Mail: info@sequoia.it – www.sequoia.it