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## Wired communication

Communication interface with the PC is an electronic device which links the logger to the PC, thus allowing 2 ways data transmission.

These interfaces can be "single" or "multi" type. Both of them are available in **Serial or USB** version.

**Single logger interfaces** enable communication with one logger only.

**Multi logger interfaces** allow communication with 6 loggers simultaneously. You can connect several Multi interfaces together, in order to communicate with up to 96 loggers at a time



Interface mono RS 232



Interface mono USB



Interface multi RS 232



Interface MOUSB Multi USB

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## Real time communication

### Real time by Radio frequency

Most of the NanoVACQ, VACQ II and VACQ Flat are available in FM version. This version enables a **real time data transmission** and thus enables a quick control of the processes. The transmission can be done in a humid environment like autoclave or at very high temperature like ceramic oven.

These loggers have been developed for transmitting data in real time but also for recording data as any data logger. They have the same temperature specifications as the standard loggers. The NanoVACQ FM have the same diameter than the standard NanoVACQ but they can be longer depending on the temperature range and the batteries expected life time. Several frequency bands are available to fit different countries regulations.

### Real time wired communication

This communication method only applies when the logger is not placed inside the process. For example: the use of the VACQ 3000 for sterilization process validation in pharmacy industry. In this case, the logger is permanently connected to the PC outside the autoclave and the thermocouples are spread inside the autoclave. For this application, it is strongly recommended to use TQS V5 software from TQSolutions. Of course, this configuration is possible with many applications. In any case, you can visualize the temperature evolution on a PC screen, in real time.

### Le GPS

For any applications needing a remote real time monitoring, TMI-Orion offers the opportunity to follow the evolution of live data measurement and the data logger location while the logger is moving. This feature is especially useful during transportation.

