



Amendment 1

Interrogator for Fiber Bragg Grating Distributed Sensing Arrays – Questions and Answers

Q1. Does requirement #10 (Laser scanning rate: 1 Hz to 200 kHz) specifically require that a swept laser is used in the design, or would any design that has a data acquisition rate from 1 Hz to 200 kHz meet this requirement? Similarly, do requirements #4 and #7 imply that a swept/tunable laser is a required internal component of the interrogator?

A1. We presume that the solution will require a swept laser system, however an alternative which does not have a swept system will be considered but still needs to meet specifications 1, 2, 5, 6 and 7. Of course the condition # 10 is changed to reflect the acquisition rate per channel.

Q2. Regarding requirement #12, are there any requirements for the stability / absolute accuracy of the internal reference, or are those attributes irrelevant so long as requirement #5 is met?

A2. #12 is not important as long as #5 is met.

Q3. Are the requirements mutually inclusive? For example, would it be sufficient to have a system capable of 200 kHz scan rate for single-channel operation, but slower maximum scan rate for 16-channel operation meet this requirement?

A3. The requirements are not mutually exclusive so with regards to the example given, the maximum rate per channel can be smaller than the 200 kHz single channel specification.