CLAIMS

1. A control system for a subsea hydrocarbon extraction well facility, the system comprising:
a subsea electronics module housed in a subsea control module at a tree of the subsea hydrocarbon extraction well facility;
a printed circuit board fitted into the subsea electronic module; and
a vibration sensor mounted on and interlaced with the printed circuit, wherein the vibration sensor is configured to sense vibration of the subsea electronic module.

2. The system according to claim 1, wherein the vibration sensor comprises a three-axis acceleration sensor.

3. The system according to any one of the preceding claims, wherein the vibration sensor is incorporated in an integrated circuit.

4. The system according to claim 3, wherein the integrated circuit is configured to amplify and process signals from the sensor.

5. The system according to any one of the preceding claims, wherein the system is configured to transmit data from the sensor to a control station.

6. A method of monitoring vibration of a subsea electronics module at a tree of a subsea hydrocarbon extraction facility, the method comprising:
providing the subsea electronic module housed in a subsea control module and comprising a vibration sensor mounted on and interlaced with a printed circuit board, the printed circuit board being fitted into the subsea electronic module; and
sensing vibration of the subsea electronic module using the vibration sensor on the printed circuit board.

7. The method according to claim 6, wherein the vibration sensor comprises a three-axis acceleration sensor.

8. The method according to claim 6 or 7, wherein the vibration sensor is incorporated in an integrated circuit.

9. The method according to claim 8, wherein the integrated circuit amplifies and processes signals from the vibration sensor.

10. The method according to any one of claims 6 to 9, comprising transmitting data from the vibration sensor to a control station.