

**DATE: 2023-08-31**

## **REF TEK 147A-01/3/INT/SM2 Accelerometer**

**S/N: R3737**

**P/N: R-180-S002**

### NORMALIZED MAGNITUDE - FREQUENCY CHARACTERISTICS

| Freq. (Hz) | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|------------|----------------------|-------------------------|-----------------------|
| 1.00       | 1.0001               | 1.0001                  | 1.0002                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9998               | 0.9996                  | 0.9995                |
| 30.00      | 0.9995               | 0.9991                  | 0.9987                |
| 40.00      | 0.9991               | 0.9984                  | 0.9977                |
| 50.00      | 0.9988               | 0.9979                  | 0.9967                |
| 60.00      | 0.9987               | 0.9975                  | 0.9958                |
| 70.00      | 0.9988               | 0.9976                  | 0.9953                |
| 80.00      | 0.9995               | 0.9985                  | 0.9954                |
| 90.00      | 1.0009               | 1.0003                  | 0.9965                |
| 100.00     | 1.0034               | 1.0035                  | 0.9987                |
| 120.00     | 1.0013               | 1.0159                  | 1.0082                |
| 140.00     | 1.0323               | 1.0391                  | 1.0267                |
| 160.00     | 1.0579               | 1.0685                  | 1.0494                |

### SENSITIVITIES

|                                  | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|----------------------------------|----------------------|-------------------------|-----------------------|
| <b>Output Sensitivity (V/g)</b>  | 1.251                | 1.251                   | 1.250                 |
| <b>Cross-axis Coupling (g/g)</b> | 0.68%                | 0.20%                   | 0.20%                 |

\* g = 9.80 m/s<sup>2</sup>

Rev J (2022-05)