

**DATE: 2023-06-09**

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

**S/N: R3769**

**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       | 1.0002               | 1.0002                  | 1.0002                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9996               | 0.9993                  | 0.9993                |
| 30.00      | 0.9989               | 0.9983                  | 0.9983                |
| 40.00      | 0.9982               | 0.9969                  | 0.9971                |
| 50.00      | 0.9976               | 0.9955                  | 0.9961                |
| 60.00      | 0.9973               | 0.9939                  | 0.9953                |
| 70.00      | 0.9975               | 0.9927                  | 0.9952                |
| 80.00      | 0.9986               | 0.9919                  | 0.9961                |
| 90.00      | 1.0008               | 0.9919                  | 0.9982                |
| 100.00     | 1.0042               | 0.9929                  | 1.0020                |
| 120.00     | 1.0164               | 0.9995                  | 1.0156                |
| 140.00     | 1.0358               | 1.0140                  | 1.0384                |
| 160.00     | 1.0541               | 1.0310                  | 1.0619                |

### SENSITIVITIES

|                                  | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|----------------------------------|----------------------|-------------------------|-----------------------|
| <b>Output Sensitivity (V/g)</b>  | 1.250                | 1.250                   | 1.250                 |
| <b>Cross-axis Coupling (g/g)</b> | 0.52%                | 0.08%                   | 0.40%                 |

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

Rev J (2022-05)