

**DATE: 2023-03-27**

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

**S/N: R3763**

**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               | 1.0003                  | 0.9998                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9994               | 0.9992                  | 1.0004                |
| 30.00      | 0.9984               | 0.9979                  | 1.0010                |
| 40.00      | 0.9972               | 0.9963                  | 1.0015                |
| 50.00      | 0.9959               | 0.9946                  | 1.0018                |
| 60.00      | 0.9946               | 0.9930                  | 1.0017                |
| 70.00      | 0.9935               | 0.9919                  | 1.0014                |
| 80.00      | 0.9927               | 0.9914                  | 1.0008                |
| 90.00      | 0.9928               | 0.9921                  | 1.0006                |
| 100.00     | 0.9938               | 0.9940                  | 1.0009                |
| 120.00     | 1.0000               | 1.0036                  | 1.0060                |
| 140.00     | 1.0143               | 1.0230                  | 1.0206                |
| 160.00     | 1.0338               | 1.0468                  | 1.0428                |

### 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                   | 1.251                 |
| <b>Cross-axis Coupling (g/g)</b> | 0.68%                | 0.84%                   | 0.52%                 |

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

Rev J (2022-05)