

**DATE: 2023-12-07**

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

**S/N: R3782**

**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       | 1.0004               | 1.0004                  | 1.0002                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9990               | 0.9988                  | 0.9994                |
| 30.00      | 0.9974               | 0.9969                  | 0.9985                |
| 40.00      | 0.9956               | 0.9949                  | 0.9973                |
| 50.00      | 0.9938               | 0.9931                  | 0.9959                |
| 60.00      | 0.9925               | 0.9919                  | 0.9946                |
| 70.00      | 0.9920               | 0.9919                  | 0.9938                |
| 80.00      | 0.9929               | 0.9936                  | 0.9940                |
| 90.00      | 0.9954               | 0.9972                  | 0.9957                |
| 100.00     | 1.0001               | 1.0032                  | 0.9995                |
| 120.00     | 1.0180               | 1.0241                  | 1.0161                |
| 140.00     | 1.0512               | 1.0591                  | 1.0495                |
| 160.00     | 1.0931               | 1.0959                  | 1.0945                |

### SENSITIVITIES

|                                  | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|----------------------------------|----------------------|-------------------------|-----------------------|
| <b>Output Sensitivity (V/g)</b>  | 1.250                | 1.251                   | 1.250                 |
| <b>Cross-axis Coupling (g/g)</b> | 0.16%                | 0.16%                   | 0.28%                 |

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

Rev J (2022-05)