

**DATE: 2022-07-19**

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

**S/N: R3731**

**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       | 1.0000               | 0.9997                  | 1.0003                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9999               | 1.0004                  | 0.9992                |
| 30.00      | 0.9995               | 1.0004                  | 0.9980                |
| 40.00      | 0.9987               | 0.9998                  | 0.9965                |
| 50.00      | 0.9976               | 0.9988                  | 0.9950                |
| 60.00      | 0.9963               | 0.9978                  | 0.9937                |
| 70.00      | 0.9953               | 0.9970                  | 0.9929                |
| 80.00      | 0.9949               | 0.9970                  | 0.9930                |
| 90.00      | 0.9955               | 0.9980                  | 0.9944                |
| 100.00     | 0.9975               | 1.0003                  | 0.9974                |
| 120.00     | 1.0071               | 1.0110                  | 1.0102                |
| 140.00     | 1.0251               | 1.0315                  | 1.0342                |
| 160.00     | 1.0441               | 1.0557                  | 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                | 1.251                   | 1.250                 |
| <b>Cross-axis Coupling (g/g)</b> | 0.00%                | 0.20%                   | 0.40%                 |

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

Rev J (2022-05)