

**DATE: 2025-01-28**

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

**S/N: R3889**

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

**DAS: 34117**

### 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                  | 1.0002                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9993               | 0.9992                  | 0.9994                |
| 30.00      | 0.9983               | 0.9980                  | 0.9985                |
| 40.00      | 0.9970               | 0.9966                  | 0.9974                |
| 50.00      | 0.9957               | 0.9953                  | 0.9962                |
| 60.00      | 0.9946               | 0.9943                  | 0.9951                |
| 70.00      | 0.9941               | 0.9940                  | 0.9944                |
| 80.00      | 0.9943               | 0.9947                  | 0.9943                |
| 90.00      | 0.9956               | 0.9967                  | 0.9950                |
| 100.00     | 0.9983               | 1.0003                  | 0.9970                |
| 120.00     | 1.0100               | 1.0140                  | 1.0063                |
| 140.00     | 1.0323               | 1.0374                  | 1.0263                |
| 160.00     | 1.0603               | 1.0628                  | 1.0547                |

### SENSITIVITIES

|                           | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|---------------------------|----------------------|-------------------------|-----------------------|
| Output Sensitivity (V/g)  | 1.251                | 1.250                   | 1.250                 |
| Cross-axis Coupling (g/g) | 0.44%                | 0.24%                   | 0.04%                 |

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

Rev K (2024-01)