

DATE: 2025/10/21

## REF TEK 147A-01/3 Accelerometer

S/N: 25716

P/N: R-97499-00

### NORMALIZED MAGNITUDE - FREQUENCY CHARACTERISTICS

| Freq. (Hz) | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|------------|----------------------|-------------------------|-----------------------|
| 1.00       | 1.0005               | 1.0002                  | 1.0004                |
| 10.00      | 1.0000               | 1.0000                  | 1.0000                |
| 20.00      | 0.9985               | 0.9995                  | 0.9989                |
| 30.00      | 0.9963               | 0.9989                  | 0.9974                |
| 40.00      | 0.9938               | 0.9982                  | 0.9956                |
| 50.00      | 0.9918               | 0.9978                  | 0.9938                |
| 60.00      | 0.9906               | 0.9978                  | 0.9925                |
| 70.00      | 0.9909               | 0.9986                  | 0.9921                |
| 80.00      | 0.9931               | 1.0006                  | 0.9930                |
| 90.00      | 0.9973               | 1.0037                  | 0.9955                |
| 100.00     | 1.0038               | 1.0082                  | 1.0001                |
| 120.00     | 1.0236               | 1.0226                  | 1.0167                |
| 140.00     | 1.0490               | 1.0446                  | 1.0439                |
| 160.00     | 1.0639               | 1.0678                  | 1.0706                |

### SENSITIVITIES

|                           | Z-Axis<br>(Vertical) | Y-Axis<br>(North/South) | X-Axis<br>(East/West) |
|---------------------------|----------------------|-------------------------|-----------------------|
| Output Sensitivity (V/g)  | 2.501                | 2.499                   | 2.499                 |
| Cross-axis Coupling (g/g) | 0.32%                | 0.48%                   | 0.04%                 |

\* g = 9.81 m/s<sup>2</sup>

Rev L (2025-09)