

# Instruction Sheet

## High Frequency Triaxial Geophone (Part No. 720A4701)

### Introduction

The InstanTel High Frequency Triaxial Geophone is intended for use with all **Series IV** monitors. The geophone may be connected to channels 1-3 on the **InstanTel® Minimate Pro4** and **InstanTel® Minimate Pro6** or channels 4-6 on the **Minimate Pro6**. Extension cables can also be used to locate the **Series IV** unit a safe distance from the vibration source.

### Package Contents

This kit contains one InstanTel High Frequency Triaxial Geophone (Part No. 720A4701) and this instruction sheet.

### Tools and Materials Required

- **InstanTel® Minimate Pro4** or **Minimate Pro6** monitor
- InstanTel High Frequency Triaxial Geophone (Part No. 720A4701)
- Extension cables, as required
- Mounting bolt, type and quantity, as required
- InstanTel Wall Mount Fastening Block (Part No. 718A0101), as required
- **Blastware® Advanced Software Module**, Version 10.1 or higher

### Physical Installation

The High Frequency Triaxial Geophone must be bolted to a surface, either directly or with the aid of the optional leveling plate. Position the sensor with leveling plate, if attached, on the surface and mark the position of the bolt. Use a 3/8 inch (9.5 mm) bolt or threaded rod. Install the bolt according to the manufacturer's instructions. Slide the Geophone, and Leveling Plate, over the bolt. Slide a 3/8 inch (9.5 mm) washer and a 3/8 inch (9.5 mm) lock washer over the bolt. If using the Leveling Plate, level the Geophone using the leveling feet and integrated bubble level. Tighten the retaining nut to complete the installation.

### Monitor Setup

Geophone settings require the **Blastware Advance Module** software. Enter the geophone sensitivity in the *Edit Menu, Advanced Setup* dialog box. See the specifications section below for the sensitivity value.

### Specifications

Amplitude Range	100 in/sec (2.54 m/sec)
Frequency Range	28 Hz to 1 kHz
Sensitivity	0.03222605 V/in/s (0.0012674 V/mm/s)
Resolution	0.00310 in/s (0.0788 mm/s)
Trigger Levels	0.05 to 100 in/sec (1.26 to 2543 mm/s)
Sensor Density	145 lbs/ft <sup>3</sup> (2.33 g/cc)
Recommended Sample Rate	4096 sps
Cable Length	6 ft. (2 m)



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### Warranty

All Instantel®, a division of Xmark, products come with a one-year warranty. Series III monitors (Blastmate III™, Minimate Blaster™, and Minimate Plus™), Series IV monitors (Minimate Pro4™ and Minimate Pro6™) and sensors will have the warranty extended for a second year if they are returned to the Instantel factory for service and calibration within 30 days of the 'Next Calibration' date printed on the calibration label located on the product.

If within a period of one year from the date of shipment to a customer the instrument fails to perform in accordance with Instantel's published specifications and the operator's manual, due to a defect in materials or workmanship, it will be repaired or replaced at Instantel's option, free of charge. This warranty is void if the equipment has been dismantled, altered or abused in any way. This warranty is nontransferable.

The above warranty does not include any implied warranty of functionality for a particular purpose. Instantel assumes no responsibility for damages of any description resulting from the operation or use of its products. Since it is impossible to anticipate all of the conditions under which its products will be used either by themselves or in conjunction with other products, Instantel cannot accept responsibility for the results unless it has entered into a contract for services which clearly define such an extension of responsibility and liability. Any shipments returned directly to Instantel must have our prior approval and all packages must display the Return of Material Authorization (RMA) Number issued by Instantel. Shipping charges to Instantel's plant will be paid by the customer and those for return to the customer will be paid by Instantel.

To protect your warranty, you must complete and return a Warranty Registration Certificate, or complete the online Warranty Registration Form, within ten days of purchase. Units will be assumed out of warranty if there is no warranty card on file at Instantel. Retain this portion and the proof of purchase for your records.

### EC Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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980-720001-000 Rev 02 - Product Specifications are Subject to Change

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