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714B0061 Rev 04 – Product Specifications are Subject to Change



Sensor Guide

Sensor Guide



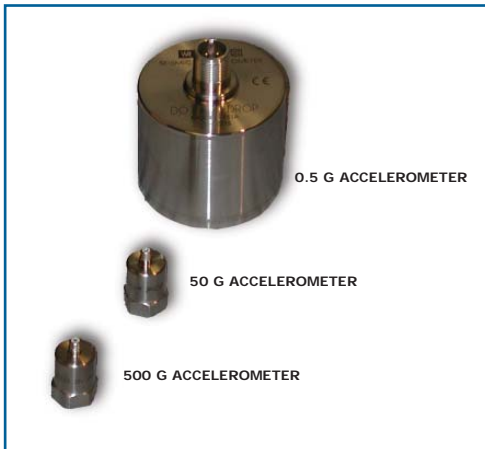
STANDARD TRIAXIAL GEOPHONES

ISEE VERSION

PART NUMBER	714A9701
RESPONSE STANDARD	ISEE Seismograph Specification
OPERATING FREQUENCY RANGE	2 to 250 Hz
VELOCITY RANGE	Up to 254 mm/s (10 in/s)
RESOLUTION	0.0159 mm/s (0.000625 in/s)
SENSOR DENSITY	2.13 g/cc (133 lbs/ft ³)
STANDARD CABLE LENGTH	1.8 m (6 ft)
MAXIMUM CABLE LENGTH	75 m (250 ft)
BLASTWARE MODULE	Compliance

DIN VERSION

PART NUMBER	718A3301
RESPONSE STANDARD	DIN 45669-1 Class 1
OPERATING FREQUENCY RANGE	1 to 315 Hz
VELOCITY RANGE	Up to 254 mm/s (10 in/s)
RESOLUTION	0.0159 mm/s (0.000625 in/s)
SENSOR DENSITY	2.13 g/cc (133 lbs/ft ³)
STANDARD CABLE LENGTH	1.8 m (6 ft)
MAXIMUM CABLE LENGTH	1,000 m (3,280 ft)
BLASTWARE MODULE	Compliance



ACCELEROMETERS

0.5 G

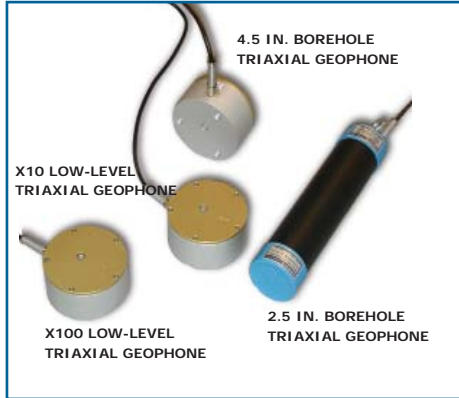
PART NUMBER	714A7101
OPERATING FREQUENCY RANGE	0.5 to 500 Hz
ACCELERATION RANGE	0.5 g
RESOLUTION	0.00025 g
MAXIMUM SHOCK LIMIT	10 g
MOUNTING THREAD (TAP HOLE)	3/8 - 16 tapped hole
BLASTWARE MODULE	Advanced

50 G

PART NUMBER	338B35
OPERATING FREQUENCY RANGE	1 Hz to 3 kHz
ACCELERATION RANGE	50 g
RESOLUTION	0.025 g
MAXIMUM SHOCK LIMIT	2,000 g
MOUNTING THREAD (TAP HOLE)	10-32 UNF-2B
BLASTWARE MODULE	Advanced

500 G

PART NUMBER	338B34
OPERATING FREQUENCY RANGE	1 Hz to 3 kHz
ACCELERATION RANGE	500 g
RESOLUTION	0.25 g
MAXIMUM SHOCK LIMIT	2,000 g
MOUNTING THREAD (TAP HOLE)	10-32 UNF-2B
BLASTWARE MODULE	Advanced



SPECIALTY TRIAXIAL GEOPHONES

64 mm (2.5 in) BOREHOLE

PART NUMBER	714A8501
OPERATING FREQUENCY RANGE	2 to 250 Hz
VELOCITY RANGE	Up to 254 mm/s (10 in/s)
RESOLUTION	0.0159 mm/s (0.000625 in/s)
SENSOR DENSITY	1.73 g/cc (108 lbs/ft ³)
STANDARD CABLE LENGTH	30 m (98 ft)
MAXIMUM CABLE LENGTH	75 m (250 ft)
BLASTWARE MODULE	Compliance

114 mm (4.5 in) BOREHOLE

PART NUMBER	714A3301
OPERATING FREQUENCY RANGE	2 to 250 Hz
VELOCITY RANGE	Up to 254 mm/s (10 in/s)
RESOLUTION	0.0159 mm/s (0.000625 in/s)
SENSOR DENSITY	2.13 g/cc (133 lbs/ft ³)
STANDARD CABLE LENGTH	30 m (98 ft)
MAXIMUM CABLE LENGTH	75 m (250 ft)
BLASTWARE MODULE	Compliance

X10 LOW-LEVEL

PART NUMBER	714A8302
OPERATING FREQUENCY RANGE	2 to 250 Hz
VELOCITY RANGE	Up to 25.4 mm/s (1.0 in/s)
RESOLUTION	0.00159 mm/s (0.0000625 in/s)
SENSOR DENSITY	2.13 g/cc (133 lbs/ft ³)
STANDARD CABLE LENGTH	1.8 m (6 ft)
MAXIMUM CABLE LENGTH	75 m (250 ft)
BLASTWARE MODULE	Advanced

X100 LOW-LEVEL

PART NUMBER	714A8301
OPERATING FREQUENCY RANGE	2 to 250 Hz
VELOCITY RANGE	Up to 2.54 mm/s (0.1 in/s)
RESOLUTION	0.000159 mm/s (0.00000625 in/s)
SENSOR DENSITY	2.13 g/cc (133 lbs/ft ³)
STANDARD CABLE LENGTH	1.8 m (6 ft)
MAXIMUM CABLE LENGTH	75 m (250 ft)
BLASTWARE MODULE	Advanced

HIGH-FREQUENCY

PART NUMBER	714A9101
OPERATING FREQUENCY RANGE	28 Hz to 1 kHz
VELOCITY RANGE	2540 mm/s (100 in/s)
RESOLUTION	1.27 mm/s (0.05 in/s)
SENSOR DENSITY	2.33 g/cc (145 lbs/ft ³)
STANDARD CABLE LENGTH	30 m (98 ft)
MAXIMUM CABLE LENGTH	1,000 m (3,280 ft)
BLASTWARE MODULE	Advanced

ADDITIONAL COMPONENTS

1. QUAD SPLITTER CABLE
2. TRIAXIAL PLUS UNIAXIAL SPLITTER CABLE
3. SERIES III EXTENSION CABLE, 30 m (100 ft)
4. SERIES III EXTENSION CABLE, 75 m (250 ft)
5. SERIES III EXTENSION CABLE, CUSTOM LENGTH
6. EXTENSION CABLE LINE DRIVER, 30 m (100 ft)
7. EXTENSION CABLE LINE DRIVER, 75 m (250 ft)
8. TRIAXIAL GEOPHONE LEVELING PLATE
9. TRIAXIAL GEOPHONE WALL-MOUNT KIT
10. UNIVERSAL BREAK-OUT BOX
11. ACCELEROMETER ADAPTOR CABLE
12. ACCELEROMETER CABLE (50 g, 500 g)
13. ACCELEROMETER TRIAXIAL MOUNTING BLOCK



STANDARD OVERPRESSURE MICROPHONES

LINEAR

PART NUMBER	714A9801
FREQUENCY WEIGHTING	Linear
RESPONSE STANDARD	ISEE Seismograph Specification
OPERATING FREQUENCY RANGE	2 to 250 Hz
SOUND PRESSURE RANGE	88 to 148 dB
RESOLUTION	0.25 Pa (0.0000363 PSI)
STANDARD CABLE LENGTH	1.8 m (6 ft)
BLASTWARE MODULE	Compliance

A WEIGHT

PART NUMBER	714A2001
FREQUENCY WEIGHTING	A Weighting
RESPONSE STANDARD	Not applicable
OPERATING FREQUENCY RANGE	15 Hz to 8 kHz
SOUND PRESSURE RANGE	50 to 110 dBA
RESOLUTION	0.1 dBA
STANDARD CABLE LENGTH	1.8 m (6 ft)
BLASTWARE MODULE	Compliance



SPECIALTY OVERPRESSURE SENSORS

HYDROPHONE

PART NUMBER	718A0801
OPERATING FREQUENCY RANGE	8 to 500 Hz
PRESSURE RANGE	Up to 324 kPa (47 PSI)*
RESOLUTION	164 Pa (0.0237 PSI)
MAXIMUM PRESSURE LIMIT	76 m (250 ft) maximum depth
STANDARD CABLE LENGTH	60 m (197 ft)
BLASTWARE MODULE	Advanced

* Pressure changes up to 648 kPa (97 PSI) with available adaptor.

HIGH-PRESSURE MICROPHONE

PART NUMBER	714A5501
OPERATING FREQUENCY RANGE	5 Hz to 1 kHz
PRESSURE RANGE	Up to 34.5 kPa (5.0 PSI)
RESOLUTION	17.3 Pa (0.0025 PSI)
MAXIMUM PRESSURE LIMIT	207 kPa (30 PSI)
STANDARD CABLE LENGTH	1.8 m (6 ft)
BLASTWARE MODULE	Advanced

PART NUMBER

- 714A3201
- 714A3901
- 714A3801
- 714A3802
- 714A3805
- 714A7601
- 714A7602
- 714A1801
- 718A0101
- 716A2001
- 714A5301
- 002C10
- 080A11