

Specification Sheet

Minimate Pro™ Advanced Sensors

	HIGH FREQUENCY GEOPHONE	HIGH FREQUENCY BOREHOLE	HYDROPHONE	0.5 G ACCELEROMETER	50 G ACCELEROMETER	500 G ACCELEROMETER
						
PART NUMBER	720A4701	720A5801	720A5001	714A7101	720A6301	720A6401
RESPONSE STANDARD	N/A	N/A	N/A	N/A	N/A	N/A
AMPLITUDE RANGE	2540 mm/s (100 in/s)	2540 mm/s (100 in/s)	324 kPa (47 psi)	0.5 g max < 10 g pk	50 g max +/- 10,000 g pk	500 g max +/- 10,000 g pk
FREQUENCY RANGE	30 - 1,000 Hz	30 - 1,000 Hz	8 - 500 Hz	0.5 Hz - 500 Hz (±3dB)	1 Hz - 3 kHz	1 Hz - 3 kHz
RESOLUTION	0.0788 mm/s (0.00310 in/s)	0.0788 mm/s (0.0031 in/s)	0.0101 kPa (0.00146 psi)	0.0000155 g	0.00155 g	0.0155 g
TRIGGER LEVELS	1.27 - 2540 mm/s (0.05 - 100 in/s)	1.27 - 2540 mm/s (0.05 - 100 in/s)	0.162 - 324 kPa (0.0234 - 47 psi)	0.00032 g	0.032 g	0.256 g
RECOMMENDED SAMPLE RATE	4,096 S/s	4,096 S/s	65,536 S/s	2,048 S/s	16,384 S/s or greater	16,384 S/s or greater
NATURAL FREQUENCY	30 Hz	30 Hz	14.7 Hz	815 Hz	≥ 22 kHz	≥ 38 kHz
SENSOR DENSITY	2.3 g/cc (144 lbs/ft³)	1.73 g/cc (108 lbs/ft³)	N/A	N/A	N/A	N/A
CABLE LENGTH	2 m (6.6 ft)	30 m (98.4 ft)	60 m (196.9 ft)	1.8 m (5.9 ft) Cable (Part No. R6-2-J5A-6)	3 m (9.8 ft) Cable (Part No. 002C10)	3 m (9.8 ft) Cable (Part No. 002C10)
MAXIMUM CABLE LENGTH	1,000 m (3,280 ft)	1000 m (3,280 ft)	Max Operating Depth 46 m (150.9 ft)	1.8 m (5.9 ft)	3 m (9.8 ft)	3 m (9.8 ft)
MOUNTING THREAD	Connector	Connector	Connector	3/8 - 16 tapped hole	10-32 UNF-2B	10-32 UNF-2B
SENSITIVITY	0.00126874 V/mm/s (0.032226 V/in/s)	0.00126874 V/mm/s (0.032226 V/in/s)	0.0099463 V/kPa (0.068566 V/psi)	6.4451998 V/g	0.064452 V/g	0.0064452 V/g
TEMPERATURE RANGE	N/A	N/A	N/A	N/A	N/A	N/A
REQUIRED SOFTWARE	THOR Advanced	THOR Advanced	THOR Advanced	THOR Advanced	THOR Advanced	THOR Advanced

Note: All Minimate Pro4/Pro6 Standard Sensors can operate in Advanced mode and benefit from high sample rates (up to 65,536 S/s) when configured with a THOR Advanced license.

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