DT-HP103 (P/N:611100100)

High Precision, Low Distortion Geophone Element

Low distortion and close tolerance geophone

High quality, reliable and cost effective

3 years limited warranty

2-D and 3-D seismic application

Suitable for land, transition zone, marsh and shallow water environments with different cases

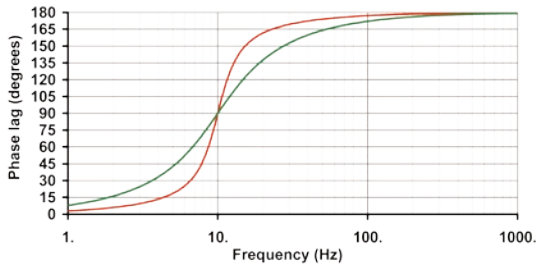
Specifications (all parameters are specified at + 20° C)

Frequency	**Natural Frequency (Fn)**	10 Hz
	Tolerance	± 2.5%
	Max. Tilt Angle for Specified (Fn)	10°
	Typical Spurious Frequency	>240 Hz
Distortion	**Distortion with 0.7 in/s p.p. Coil to Case Velocity**	<0.10%
	Distortion Measurement Frequency	12 Hz
	Tilt Angle for Distortion Specification	10°
	Typical Distortion (string of 12 geophones in series, measured at 12 Hz)	≤0.03%
Damping	**Typical Open Circuit Damping**	0.25
	Damping with Calibration-Shunt 1,000 ohm	0.686
	Tolerance with Calibration-Shunt	+5% - 0%
Coil Resistance	**Standard**	375 ohm
	Tolerance	± 2.5%
Sensitivity	**Sensitivity**	28.8 V/m/s (0.73 V/in/s)
	Sensitivity with Shunt 1,339 ohm	22.5 V/m/s
	Sensitivity with Shunt 1,000 ohm	20.9 V/m/s
	Tolerance	± 2.5%
Physical Characteristics	**Moving Mass**	11 g (0.38 oz)
	Maximum Coil Excursion p.p.	2 mm (0.08 in)
	Diameter	25.4 mm (1 in)
	Height	32.0 mm (1.26 in)
	Weight	85 g (3.0 oz)
	Operating Temperature Range	-40° C to +100° C

Warranty excludes damage caused by high voltage and physical damage to the element case.
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

Geophone Phase Lag (signal relative to case velocity)

Geo Type : HP103-10Hz-375			Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Frequency : 10. Hz	Curve 1	O.C.	375.00	0.250	28.80
Moving Mass : 11. g	Curve 2	1,000	272.73	0.686	20.95
Nr of geophones in series: 1.	Curve 3				
Nr of parallel branches: 1.	Curve 4				



Geophone Response Curve

Geo Type : HP103-10Hz-375			Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Frequency : 10. Hz	Curve 1	O.C.	375.00	0.250	28.80
Moving Mass : 11. g	Curve 2	1,000	272.73	0.686	20.95
Nr of geophones in series: 1.	Curve 3				
Nr of parallel branches: 1.	Curve 4