

## Data Sheet of 14Hz Geophones

Type	ST-14N (Equivalent to SM-4, 14hz)	ST-20DX 14hz (Equivalent to GS-20DX, 14hz)
Natural frequency ( Hz )	14 ± 5%	14±5%
Open circuit damping	0.2 ±5%	0.22
Damping with Shunt Resistor	0.6 ± 5%	0.51±5%
Open Circuit Intrinsic Voltage Sensitivity(V/m/s)	28.8	28.0
Sensitivity with Shunt Resistor(V/m/s)	18.2 ± 5%	20.0±5%
Coil Resistance (ohm)	375 ± 5%	395±5%
Harmonic Distortion ( % )	<0.2	≤0.2
Typical Spurious Frequency ( Hz )	≧ 240	≥250
Moving Mass ( g )	11.6	11.0
Max.coil excursion p-p (mm)	2.0	1.5
Max.tilt angle	20°	20°
Element Diameter (mm)	25.4	25.4
Element Height (mm)	32	33.5
Element Weight (g)	74	87.0
Operating Temperature(°C)	- 40°C to + 100°C	- 45°C to + 100°C
Warranty Period	3 years	3 years

- All parameters specified herein are rated at a temperature 20°C±2°C.
- 3-year limited warranty on basic element exclusive of high voltage, lightening or physical abuse.

## Technical Specifications of 14Hz Geophone Strings

Type	- Single Geophone / Geophone Array / Geophone String
Geophone Direction	- Vertical / Horizontal / Three Component
Geophone Connection	- Most commonly used type is single geophone with 1x1 connection. - Custom wiring available upon request.
Geophone Type	- ST-14N ( Equivalent to SM-4,14Hz ) - ST-20DX,14Hz (Equivalent to GS-20DX,14Hz)
Geophone Case	- Geophone Case for land, desert and snow / Geophone Case for marsh and transition zone available.
Spike	- Steel Spike / Brass Spike / Tripod / Snow Base
Cable	- Most commonly used type is cable O.D.4.6mm with length 1meter. - Custom Cable Outer Diameter / Cable Length available upon request.
Connector Type	- KCK Connector / 408 Connector ( Male/ Female/ Dual / Push Fit / Screw Fit /WCR ) - 5515 Connector ( Male/ Female/ Dual / Push Fit / Screw Fit /WCR ) - Kooter Connector / MP-16 Connector ( Male / Female / Dual /KCL male / KCL female / KC2L-4 Dual ) - Split Spring Connector - Mueller Clips Connector - Other sorts of connector available upon request.