

GV10ZF

Geophones

Vertical geophone 10 Hz



Vertical geophone 10 Hz with 1 m lead cable, land case, spike, Mueller clips connector

Methodologies

Refraction Seismic

General specifications

Manufacturer	ZF-GEO
Typology	Vertical
Case	Land case
Connector	Mueller clips
Spike height	7 cm
Cable lenght	1 mt

Physical specifications

Moving mass	11.2 g
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General specifications

Maximum coil excursion	1.52 mm
Diameter	25.4 mm
Height	33.3
Weight	81 g
Operative temperature range	-45°C to +100°C

Frequency

Natural Frequency (fn)	10 Hz
Tolerance	+/- 2.5 Hz
Max. tilt angle for specified fn	20°
Typical Spurious frequency	>250 Hz

Sensitivity

Sensitivity	27.5 V/m/s
Tolerance	+/- 2.5%
Sensitivity 1000 Ohm shunt resistance	19.7 V/m/s

Coil Resistance

Standard	395 ohm
Tolerance	+/- 2.5%

Damping

Open circuit damping	0.316
Tolerance	+/- 2.5%
Sensitivity 1000 Ohm shunt resistance	0.7

General specifications**Distortion**

Distortion eith 0.7 in/s p.p. coil to case velocity	$\leq 0.1\%$
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Distortion measurement frequency	12 Hz
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Max. tilt angle for distortion specification	10°
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GV14ZF

Geophones

Vertical geophone 14 Hz

Vertical geophone 14 Hz with 1 m lead cable, land case, spike, Mueller clips connector

Methodologies

Refraction Seismic

General specifications

Manufacturer	ZF-GEO
Typology	Vertical
Case	Land case
Connector	Mueller clips
Spike height	7 cm
Cable lenght	1 mt

Physical specifications

Moving mass	11 g
Maximum coil excursion	1.5 mm

General specifications

Diameter	25.4 mm
Height	36
Weight	86 g
Operative temperature range	-40°C to +70°C

Frequency

Natural Frequency (fn)	14 Hz
Tolerance	+/- 5%
Max. tilt angle for specified fn	20°
Typical Spurious frequency	>240 Hz

Sensitivity

Sensitivity	28 V/m/s
Tolerance	+/- 5%
Sensitivity 1000 Ohm shunt resistance	20.1 V/m/s

Coil Resistance

Standard	395 ohm
Tolerance	+/- 5%

Damping

Open circuit damping	0.22
Tolerance	+/- 5%

Distortion

General specifications

Distortion eith 0.7 in/s p.p. coil to case velocity	<0.2%
Distortion measurement frequency	14Hz
Max. tilt angle for distortion specification	20°



GV28ZF

Geophones Sensors

Vertical geophone 28 Hz

Vertical geophone 28 Hz with 1 m lead cable, land case, spike, Mueller clips connector

Methodologies

Reflection Seismic

General specifications

Manufacturer	ZF-GEO
Typology	Vertical
Case	Land case
Connector	Mueller clips
Spike height	7 cm
Cable lenght	1 mt

Physical specifications

General specifications

Moving mass	8.2 g
Maximum coil excursion	1.5 mm
Diameter	27 mm
Height	33.3 mm
Weight	95 g
Operative temperature range	-40°C to +100°C

Frequency

Natural Frequency (fn)	28 Hz
Tolerance	+/- 5 Hz
Max. tilt angle for specified fn	90 °
Typical Spurious frequency	> 380 Hz

Sensitivity

Sensitivity	42 V/m/s
Tolerance	+/- 5%
Sensitivity 1000 Ohm shunt resistance	30.4 V/m/s

Coil Resistance

Standard	395 ohm
Tolerance	+/- 5%

Damping

Open circuit damping	0.37
Tolerance	+/- 5%

General specifications

Sensibilità con 1000 Ohm resistenza shunt	0.576
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Distortion

Distortion eith 0.7 in/s p.p. coil to case velocity	<0.2%
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Distortion measurement frequency	40Hz
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Max. tilt angle for distortion specification	90°
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GV40ZF

Geophones Sensors

Vertical geophone 40 Hz

Vertical geophone 40 Hz with 1 m lead cable, land case, spike, Mueller clips connector

Methodologies

Reflection Seismic

Physical specifications

Moving mass	8.2 g
Maximum coil excursion	1.5 mm
Diameter	27 mm
Height	33.3 mm
Weight	95 g
Operative temperature range	-40°C to +100°C

Frequency

Natural Frequency (fn)	40 Hz
Tolerance	+/- 5 Hz

Physical specifications

Max. tilt angle for specified fn	90°
Typical Spurious frequency	>380 Hz

Sensitivity

Sensitivity	42 V/m/s
Tolerance	+/- 5%
Sensitivity 1500 Ohm shunt resistance	30.4 V/m/s

General specifications

Manufacturer	ZF-GEO
Typology	Vertical
Case	Land case
Connector	Mueller clips
Spike height	7 cm
Cable lenght	1 mt

Coil Resistance

Standard	395 ohm
Tolerance	+/- 5%

Damping

Open circuit damping	0.37
Tolerance	+/- 5%
Damping 1500 Ohm shunt resistance	0.576

Physical specifications**Distortion**

Distortion eith 0.7 in/s p.p. coil to case velocity	<0.2%
Distortion measurement frequency	40 Hz
Max. tilt angle for distortion specification	90°

GV45ZF

Geophones

Vertical geophone 4,5 Hz



Vertical geophone 4,5 Hz with 1 m lead cable, land case, spike, Mueller clips connector

Methodologies

M.A.S.W.

Re.Mi / ESAC

General specifications

Manufacturer	ZF-GEO
Typology	Vertical
Case	Land case
Connector	Mueller clips
Spike height	7 cm
Cable lenght	1 mt

General specifications**Physical specifications**

Moving mass	11.1 g
Maximum coil excursion	3.0 mm
Diameter	25.4 mm
Height	36
Weight	81 g
Operative temperature range	-40°C to +100°C

Frequency

Natural Frequency (fn)	4.5 Hz
Tolerance	+/- 0.5 Hz
Max. tilt angle for specified fn	0°
Typical Spurious frequency	>140 Hz

Sensitivity

Sensitivity	28.8 V/m/s
Tolerance	+/- 5%
RtBcFn (Ohm Hz)	6000

Coil Resistance

Standard	375 ohm
Tolerance	+/- 5%

Damping

Open circuit damping	0.56
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General specifications

Tolerance	+/- 5%
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Distortion

Distortion eith 0.7 in/s p.p. coil to case velocity	<0.3%
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Distortion measurement frequency	12 Hz
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Max. tilt angle for distortion specification	0°
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