

OCEAN-BOTTOM SEISMOMETERS CME-4X11-OBS



The **CME-4211-OBS** and **CME-4311-OBS** seismometers are specially adapted models for ocean bottom applications. These models share technical parameters with the corresponding regular versions, but have a specially designed compact lightweight case, flat flexible signal cable and consume little power. Being pervious itself, these sensors are designed for installation inside titanium or glass deep-water spheres, which are used in ocean bottom installation.

The **CME-4211-OBS** is the lightest model of a three-component seismometer among our products.

Configuration	Triaxial, orthogonal – Vertical, North, East
Sensitivity	2000 V/(m/s)
Maximum input signal	5 mm/sec
Frequency bandwidth 4311 <i>Limiting values</i>	0,0167 (60 sec) – 50 Hz <i>0,0083 (120 sec) - 50 Hz</i>
Frequency bandwidth 4211 <i>Limiting values</i>	0,033 (30 sec) – 50 Hz <i>0,0167 (60 sec) – 100 Hz</i>
Maximum output swing	±15V, differential mode
Output impedance	1000 Ohms
Dynamic range at 1 Hz 4311 / 4211	123.5 dB / 113 dB
Integral noise in the band 4311 <i>0,0167 (60 sec) – 50 Hz</i> <i>0,0167 (60 sec) – 20 Hz</i>	<i>35.6 nm/sec (71,2 μV)</i> <i>22,5 nm/sec (45 μV)</i>
Integral noise in the band 4211 <i>0,033 (30 sec) – 50 Hz</i> <i>0,1 (10 sec) – 20 Hz</i>	<i>76 nm/sec (152 μV)</i> <i>28,4 nm/sec (57.8 μV)</i>
Self-noise	See plot for a standard sensor
Cross-axis sensitivity	-60 dB
Non-linearity at 1 Hz	0.5%
Temperature range	Standard -12°C - +55°C (10.4°F - 131°F)
Supply voltage	9.5 .. 16 V DC, 12 V DC nominal
Supply current	8 mA
Settling time till correct readings after power on	10 - 45 minutes, depending on the low frequency cut-off
Mass Lock , Mass Centering	None required
Self-calibration	Not available
Connector type, cable	Two-row 10-pin flat cable connector IDCC-10MR. Flat cable FRC-10 1.27mm with a connector IDC-10F
Case accessories	Pointer, 3 feet for on-surface testing
Weight 4311 / 4211	2.6 kg (5.72 lbs) / 2.2 kg (4,85 lbs)
Dimensions, diameter x height	160 x 116(127)mm (6.3” x 5”)



Fig 2. The CME4211-OBS installation into a deep-water sphere.
Photo by courtesy of GeoPro GmbH, Germany

Some of presented features and parameters apply to specific versions of a seismometer. Specifications are subject to change without notice.

<i>Инв.№ погр.</i>	<i>Портель и дата</i>	<i>Зем. инв. №</i>	<i>Инв. № сква</i>	<i>Портель и дата</i>	<i>порт. №</i>	<i>Перв. примен.</i>
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ВКСО 072.00.00 С5

<i>Исполн</i>	<i>Н. Давани</i>	<i>Город</i>	<i>Мокран</i>	<i>Имя</i>	<i>Иванов</i>	<i>Иванов</i>	<i>Иванов</i>	<i>Иванов</i>	<i>Иванов</i>	<i>Иванов</i>	<i>Иванов</i>	<i>Иванов</i>	<i>Иванов</i>
<i>Инв. №</i>	<i>072.00.00</i>	<i>00</i>	<i>С5</i>										

<i>Сейсмометр</i>	<i>Масштаб</i>	<i>1:1</i>
<i>Дата</i>	<i>Месяц</i>	<i>Месяц</i>

Копировать
Формат А4

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