



MetOcean Engineers CM04-PUV allows the gathering of Directional Wave, Tide and near-seabed Current Data from a seabed mounted instrument. Based on our successful CM04 current meter the CM04-PUV provides the additional capability with the same rugged reliability through use of a high accuracy Paros Scientific pressure sensor. The CM04-PUV records Pressure, X velocity, Y velocity, temperature and orientation on a continuous 1 minute average in Tide Mode. For Waves the instrument is operated in Burst Mode. Collecting 2048, 1024 or 512 samples on 0.5, 1, 2 or 3 hourly intervals or in continuous sampling mode.

Logging to compact flash cards means memory limitations are a thing of the past with current capabilities up to 4 Giga Byte capacity. A single battery pack (dual pack capable) providing 4½ months deployment on a sampling regime of 2048 samples every 30 minutes with a 128 Mega Byte card.

Using a hard coat anodised aluminium construction with isolation of stainless steel components, the CM04-PUV is protected against corrosion while providing a maximum 1100m depth capability with deployment depth limited only by the type of pressure sensor.

Technical Specifications:

<p>PRESSURE</p> <p>Sensor: Ranges: Resolution: Accuracy: Stability:</p>	<p>24 bit binary word</p> <p>PAROS SCIENTIFIC "DIGI-QUARTZ"</p> <p>65, 260 and 600 metres full scale - determined by choice of sensor.</p> <p>From 0.00064% to 0.00002% of full scale, dependent on measurement interval (greater resolution for longer sampling periods).</p> <p>0.005% of full scale, worst-case.</p> <p>0.0002% at (almost constant) ocean depths.</p>
<p>MEASURE OPTIONS</p> <p>Tides: Waves:</p>	<p>1 record every minute while not in burst mode</p> <p>Sample per burst: 2048, 1024, 512 ... 0</p> <p>Sample interval: 0.5s, 1s, 2s, 4s</p> <p>Burst Interval: 0.5hr, 1 hr, 2 hr, 3hr, continuous sampling</p>
<p>DATA STORAGE</p> <p>Media: Capacity:</p>	<p>presently up to 4 Giga Byte</p> <p>Tide Mode: 10 bytes/record every 1 minute</p> <p>Wave Mode: 10 bytes/record at Wave Burst Sample & Interval.</p>
<p>POWER</p>	<p>2 battery packs, each 9-16 VDC, 4mA at 12 VDC, each pack suitable for 9 months measurements</p>
<p>SIZE</p>	<p>200 mm diameter</p> <p>700 mm length</p>
<p>WEIGHT</p>	<p>22 kg in air</p> <p>5 kg in water</p> <p>35 kg shipping with crate</p>
<p>PRESSURE CASE</p> <p>Material: Hardware: Finish: Depth:</p>	<p>6061-T6 Aluminium</p> <p>316 Stainless and Delrin insulators</p> <p>Hard-coat anodize with polyurathane paint overcoat</p> <p>1100 meter operating depth.</p>