

Kongsberg Maritime Expands HiPAP Family

Kongsberg Maritime has unveiled two new members of its highly regarded HiPAP underwater positioning system family: the portable HiPAP 350P and the Low Frequency HiPAP 100.

HiPAP 350P is the only automatic beam steering portable transducer on the market and is an ideal tool for the 'Vessel of Opportunity' due to its ease of transport and set-up. With its compact transducer accompanied by a built-in accurate Motion Reference Unit, HiPAP 350P can be used on almost any vessel at short notice. The transducer is designed to be mounted on a shaft to be installed over-the-side or through a moon-pool of a vessel. With its 345mm diameter transducer head, it can also penetrate all existing 12inch/350mm gate valves. The system uses narrow pointing beam technology, to minimise the effect of noise from noise sources such as propellers and thrusters. The 46-element transducer creates a narrow beam of $\pm 7,5$ degrees, which can be pointed towards the transponder(s) in any direction within a 120-degree cone below the vessel.

HiPAP 100 is the new and Low Frequency member of the HiPAP system family. The HiPAP 100 system is the multi-purpose acoustic positioning system for ultra deep water operations, using transponders for high water pressure. Transponders with depth rating down to 6500 m are available. The HiPAP 100 is well proven, and it provides the simplest way to position ROVs and other objects in very deep water. The beam forming, signal detection and digital signal processing are based on the same principles as the other HiPAP family members. The elements are all computer-controlled and the system will dynamically control a narrow listening beam towards the transponder(s), minimising the noise influence from the vessels thrusters and propellers.

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