YOUR SUBSEA SOLUTIONS SPECIALIST



KONGSBERG

μPAP

COMPACT ACOUSTIC POSITIONING SYSTEM

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General Features

µPAP is a small with compact acoustic positioning system designed for operation from a surface vessel to track ROV's, tow fish, divers and any other subsea object at several thousand metres range. The system operates in SSBL mode where it measures the distance and direction to subsea transponders and computes a 3D position in local coordinates or in geographical coordinates.

 μ PAP benefits from the Cymbal acoustic protocol and all functions that are available for the HiPAP products are also available for μ PAP. μ PAP has full LBL calibration and positioning capabilities and can be used for position box in, calibration and positioning. The system is offering the user a wide range of transponder channels and cNODE transponder models for depths down to 4000 metres. μ PAP has built-in motion sensors for compensating the position for vessels' roll and pitch movements.

These models have no need for calibration of roll and pitch alignments but need to calibrate for alignment to the vessels' gyro compass. The system can be interfaced to the vessel heading sensor and GNSS system. Data output to users are available in established formats. The μ PAP 201-MGC contains a motion sensor and a gyro compass. This model has no need for calibration to determine roll, pitch and heading alignments. To meet various demands from the market, μ PAP transducer is available in several models with respect to motion sensors and physical size.



 μ PAP is a small and compact acoustic positioning system for operation from a surface vessel to track ROV's, tow fish, divers and any other subsea target at ranges to several thousand meters. The system operates in SSBL mode where

it measures the distance and direction to subsea transponders and computes a 3D position in local

coordinates or in geographical coordinates. µPAP is designed



TECHNICAL DATA

Model	Motion Sensor Accuracy	System Position Accuracy ⁽¹⁾
201-MGC-r3 Part no.: 337766	R/P: 0.01° H: 0.1° Range ± 180°	0.25°/0.44 %, Range: ± 0.02 m
201-MGC-r2 Part no.:400606	R/P: 0.02° H: 0.2° Range ± 180°	0.25°/0.44 %, Range: ± 0.02 m
201-H Part no.:332288	R/P: 0.05 ° Range \pm 180 °	0.26°/0.45 %, Range: \pm 0.02 m
202-m30 Part no.:462804	R/P: 0.08 $^{\circ}$ Range ± 45 $^{\circ}$	0.26°/0.45 %, Range: \pm 0.02 m
200 Part no.:337711	R/P: 0.2 $^{\circ}$ Range \pm 180 $^{\circ}$	0.32°/0.56 %, Range: \pm 0.02 m





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