

Network of Monitoring Buoys for Kiel Canal Project



OSIL have supplied a network of 7 off 1.9m data buoys to DHI in Denmark in support of a long term monitoring project in Kiel, Germany, for deployment in October. The buoy systems each incorporate 2 Sea-Bird Scientific WET Labs multiparameter water quality sensors; one mounted at the surface within the robust central buoy structure to prevent damage to the instrument and the other securely located on a unique mooring frame suspended 2m above the seabed that also accommodates a Nortek AWAC on a gimbal to monitor currents and waves.

The mooring design includes a data swivel to ensure that the subsea instruments can continually report data without the risk of cable entanglements in the dynamic environment.

The buoys have a substantial power consumption rate owing to the high sampling frequency and real time data transmitted almost continuously, as required by the client, resulting in unique adaptations made by OSIL to the top frame design to accommodate methanol fuel tanks & cells at the customer's request with the addition of secure storage for the tanks and cells, and exhaust vents.

<https://www.hydro-international.com/content/news/network-of-monitoring-buoys-for-kiel-canal-project>
