

# SMC Motion Sensor selected by ABB for their AHC winch drive

SMC is pleased to announce it has been selected to assist ABB with the development of their AHC winch application using the marine certified ACS880 drive. SMC has developed and integrated a specific ABB MODBUS TCP protocol for the ACS880 as a standard into the SMC IMU motion sensors.

## Solution

The marine certified ACS880 winch drives now include an option for Active Heave Compensation (AHC) as a built-in feature in the drive. The AHC solution is fully integrated in the drive for ease of use and eliminates the need for expensive external third party AHC control systems.

SMC motion sensors were chosen by ABB for use with their AHC system using the ACS880 drives for electric offshore winch solutions. SMC motion sensors provide excellent performance and SMC's flexible communication system has assisted in a smooth development of a specific client preferred solution.

Together this is a unique AHC solution that enables new or existing retrofit installations to have a seamless integration for a wide range of motor types. The solution can be set up with the minimum of engineering disruption and down time which is critical to a vessel's operation.

## Communication

The SMC motion sensor and the ACS880 drive communicate using Ethernet modbus TCP protocol. The communication system has a failover system connecting up to four ACS880 drives in parallel for critical redundancy support.

The ABB ACS880 winch drive communication integration is now a standardized feature in all SMC motion sensors.

## About SMC

SMC are a specialised manufacturing, engineering and development company producing the IMU range of motion sensors for the Offshore marine Industry.

## About ABB Marine Drives

ABB's marine certified ACS880 drives provide reliable operation and performance where it's needed the most. They offer accurate speed and torque control for wide range of motor types.

