

maritime automation ... powered by people

**ROCKSON  
AUTOMATION**



Project:

Alarm- and Monitoring system, retrofit

as part of the conversion of the DPSV

**AQUANAUT**

to a

safety ship for submarine newbuilding trials

### AQUANAUT in detail:

owner	thyssenkrupp Marine Systems
home port	Kiel
built	2003
conversion year	2018-2020
length	73 m
beam	16 m
drive power	6.000 kW
gross tonnage	2.642 BRZ

The conversion of the AQUANAUT to a safety ship created high flexibility for thyssenkrupp Marine System during the trials of their own submarine newbuildings.

Taking submarines alongside, managing diving operations, dynamic positioning and a small own support boat for long distances complement the profil of the AQUANAUT.

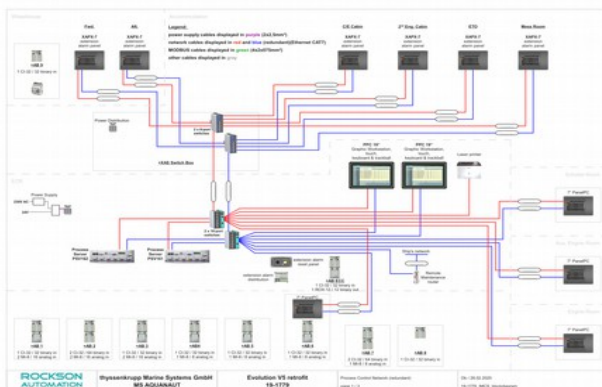
As an important part the retrofit of the alarm and monitoring system onboard opens hugh no. of different functions providing the highest level of comfort.

### ROCKSON EVOLUTION V5

makes them controlable and visible.

the automation solution for this retrofit :

- appr. 500 I/Os
- essential no. of mimics on 2 graphic workstations in Engine Control Room
- 10 pcs. panel PCs distributed in Engine Room areas, accommodation and wheelhouse as extension alarm panels and local monitoring displays
- essential no. of distributed I/O moduls and data interfaces
- multiple process servers
- redundant process control bus
- remote maintenance access (cyber secured)
- group alarm indication via mobile phones



integrated Monitoring and Control System (IMCS)

### ROCKSON EVOLUTION V5

- engine related alarm & monitoring
- extension alarm system
- tank level gauging system
- redundant system structure according to class ABS
- data interfaces to Main Engines and Diesel Generators and others
- cyber secured connection to ship's network



For additional questions don't hesitate to contact us:

Rockson Automation GmbH  
Wittland 2-4, 24119 Kiel  
Germany

Ms. Suse Koch  
+49 431 66 84 6 83 23  
suse.koch@rockson.de  
www.rockson.de



www.thyssenkrupp-marinesystems.com