

Appendix 1

Product Description and/or Approval Condition

Certificate No : CPH03795-AC006

Date of Issue : 11th November, 2019

A. Product Description

1. This system consists of the following units.
 - Remote Operator Station (ROS)
 - Watch Bridge Unit (WBU)
 - Watch Cabin Unit (WCU)
 - Watch Calling Panel (WCC 600)
 - Voltage Converter Controller (VCC)
 - Local Operator Station (LOS)
 - Midi Operator Station (MOS)
 - Multiple Serial Interface (MSI-12, MSI-CL)
 - Analog Input Module (RAi-16), (RAi-16xe)
 - Digital Output Module (RDo-16), (RDo-16xe)
 - Analog Input Module (RAi-10tc)
 - Digital Input Module (RDi-32), (RDi-32xe), (RDi-32Axe)
 - Analog Output Module (RAo-8), (RAo-8xe)
 - Combination Unit (Rio-C1), (Rio-C2), (C2xe)
 - CAN Star Coupler (PSS)
 - dual Process Segment Controller (dPSC)
 - Segment Control Unit (SCU)
 - Generator Protection Module (RIO-C3)
 - Generator Control Module (RIO-C4)
 - Control Room Panel (CRP), replaces current Operation and Control Panel (OCP)
 - Integrated Navigation Panel (INP), bridge version of CRP with backlight
 - Automation Operating Panel (ALC), used with INP panel on bridge
 - Power Switch Over unit, standard version with galvanic separation between power sources and earth fault detection (PSO)
 - Power Switch Over unit, without galvanic separation between power sources and with fuses (PSO-P)
 - Network Module (Ixxat Can Adapter), replaces currently used CAN PCI interface card used in the Remote Operation Station Computer with an external module
 - 7" Marine Touch Panel PC with integrated Malware Protection
 - Tracker Ball Panel (TBP)
 - Touch Pad Panel (TPP)
2. Control Function
 - Alarm and Monitoring
 - Aux. Control System
 - Power Management System
 - Engine Safety
 - Generator Protection
3. Documentation
 - Test Report nos. DANAK-194157, 194874, 196332, 196604, 197309, 197329, 197536, 197537, 197538, 197561, 197941, 198195, 198234, 198468, 1910740, 1910922, 1911256
 - AO-18309-A & 19/12904, Applica no. 20018
4. Software version
 - K-Chief 500 : V10 Series by Software No. 311245
 - k-Chief 600 : 359018.12 by Document No. 386083.E

B. Approval Condition

1. Individual Product Certification is required.
2. In case where this system is installed on board, the system drawings for individual vessel are to be approved by this Society.
3. The manufacturer should inform this Society of all kinds of revisions of the approved softwares. If the changes are recognized to affect functionality of the approved system, Type Test to confirm the reliability of the revised software may be performed in the presence of our surveyor.

< End of Certificate >