



Marine & Offshore

Certificate number: 23296/C0 BV

File number: AP 4136

Product code: 4431H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

ComAp a.s.

Praha 7 Holesovice - CZECH REPUBLIC

for the type of product

INTERNAL COMBUSTION ENGINE CONTROL UNITS

Modular diesel engine controller

InteliDrive DCU Marine

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 33

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 30 Apr 2026

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 30 Apr 2021,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The **InteliDrive DCU Marine** consists of devices used for the control, monitoring and protection of auxiliary or propulsion application on four-stroke diesel engines.

The modular structure is complemented by displays, extension modules, communication modules and other devices.

Installation of the devices takes place within a cabinet or rack on DIN rail and the displays in a cut-out of a panel door.

1.1 Devices:

Model	Description
ID-DCU-Marine	Diesel controller unit with graphic display, LCD, 128x64 pixel, soft key buttons, RS232 and CAN; (HW vers.: 1.0 and 2.0; SW vers.: 3.x.x))
ID-RPU	Redundant/backup protection unit
I-RB16	Relay board (16 outputs)
ID-COM	CAN interface module + J1708/J1587 redundancy bus or RS485
IGS-PTM	I/O extension module (8/8/4/1)
IS-BIN16/8	I/O extension module (16/8)
IS-AIN8	I/O extension module, 8 analog inputs
IGL-RA15	Remote annunciator
Inteli IO8/8	I/O extension module, 8/8 binary I/O, 2 analogue outputs
Inteli AIN8	I/O extension module, 8 analogue inputs
Inteli AIN8TC	I/O extension module, 8 analogue inputs for thermocouple sensors
IS-AIN8TC	I/O extension module, 8 analogue inputs for thermocouple sensors
InteliVision 5 CAN Backlit	Colour display, 5,7" TFT, 320x240 pixels, soft key buttons, CAN
InteliVision 8 Marine	Colour display, 8" TFT, 800x600 pixels, soft key buttons, RS232/485 and CAN
InteliVision 12 Touch OEM	Color display, 12,1" LCD, 1280x800 pixels, multi-touch, RS485, CAN, Ethernet and USB; (HW vers.: 1.0; SW vers.: 1.4.x)
IB-NT	Internet bridge communication module (see item 4.6)
I-AOUT8	I/O extension module, 8 analogue outputs
I-RB8	Relay board, 8 outputs
I-LBA	Low battery adapter
I-LB+	Communication bridge module (see item 4.6)
I-CR	CAN repeater communication module (see item 4.6)

1.2 Main characteristics:

Power Supply: 24V DC
Degree of protection: IP20 for modules
IP65 for displays (front)

2. DOCUMENTS AND DRAWINGS :

- Documents according to "Content - Request for Type Approval", version 1.0, dd.: 25.11.04
 - ID-DCU-Marine datasheet v4; ID-DCU-Marine-1.1; DriveConfig-1.1; DriveMonitor-1.1
 - InteliCommunicationGuide 10/04; WinscopeQ 06/04; InteliDrive-SAD for electronic VP engines 10/04
 - Documents filed in AP 3689, AP 4136 and MPA1000698
 - Circuit diagrams filed in AP 4136 and MPA1000698
 - Accessory Modules, Reference Guide dated February 2015
 - Internet Bridge, Reference Guide, last update on 9.2.2015
 - Descriptions 2012-07/CPLEIV5C, 2013-04/CPLEIVI8, 2013-04/CPLEIDMA and ID-DCU-Marine-2.2.2 dated June 2015
- For B2 version:
- Datasheet ID-DCU Marine dated 29.1.2018; Assembly drawing rev. E1 dated 1.9.2017
 - InteliDrive DCU Marine Global Guide rev.: 3.0.0
 - InteliVision 12Touch OEM Global Guide rev.: 5 dated 12.4.2018; Assembly drawing rev. D1a dated 13.1.2016

3. TEST REPORTS :

Electrotechnical testing institute of Praha:

- 402975-01/01 dated 23/09/2004; 402956-01/01 dated 06/10/2004; 403805-01/01 dated 26/10/2004
- 403844-01/01 dated 09/11/2004; 403808-01/01 dated 02/11/2004
- 603501-01/01 dated 30.11.2006; 403941-01/01 dated 15.9.2014; 603501-01/02 dated 30.11.2006
- 603501-01/03 dated 16.11.2006; 603501-01/04 dated 30.11.2006; 302523-01/01 dated 26.7.2013
- 400326-01/02 dated 20.2.2014; 302523-01/02 dated 24.7.2013; 400328-01/02 dated 20.2.2014

- 405338-01/01 dated 2.12.2014; 301356-01/02 dated 14.5.2013; 305245-01/01 dated 19.11.2013
 - 203069-01/01 dated 23.8.2012; 901598-01/02 dated 15.10.2009; 100733-01/01 dated 17.3.2011
 - 402956-01/01 dated 06.10.2004; 402975-01/01 dated 23.9.2004; 901598-01/03 dated 26.11.2009
 - 502171-01/01 dated 14.7.2015; 103598-01/01 dated 15.3.2012; 403346-01/02 dated 11.9.2014
 TÜV SÜD Auto CZ: - 260314-09-TAC dated 22.Oct.2009

For B2 version:

Electrotechnical testing institute:

- 703437-01/01 dated 26.9.2017; 702528-01/01 dated 23.8.2017; 505059-01/01 dated 23.12.2015

- 600885-01/01 dated 31.03.2016; 703780-01/01 dated 20.11.2017

VZLU Test: - P-VZLUTEST-343/17 dated 30/08/2017

For C0 version:

- ezu: 210677-01/01 dated 14.4.2021

4. APPLICATION / LIMITATION :

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - Bureau Veritas Environmental Category, **EC Code: 33**

4.4 - The colour displays IntelliVision 5, 8 and 12 fulfils the EMC requirements for installation on the bridge and deck zone.

4.5 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev7.

4.6 - Internal combustion engine safety system required by the Rules and based on data processing techniques requires a redundant protection unit.

4.7 - For single main engines a single failure of any above device is not to result in a major degradation of the propulsion of the ship.

4.8 - Remote data access via modem unit, internet bridge or communication module is part of a project related examination.

4.9 - Drawings and documents relating to each application are to be submitted to the Society's examination prior to fitting on board.

4.10 - Depending on the application, Factory Acceptance and On-board Tests are to be performed in accordance with requirements for system category II or III equipment.

4.11 - Any modification of program contents and data, as well as a change of software version, shall be documented and submitted to the Society's examination.

4.12 - Functional/Integration tests are to be performed at each diesel engine under Type Approval Certification.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above mentioned devices for engine controller are to be supplied by **ComAp a.s.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **ComAp a.s.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

ComAp a.s.
U Uranie 1612/14a
170 00 PRAHA 7 Holesovice
CZECH REPUBLIC

6. MARKING OF PRODUCT :

- Manufacturer's name or trademark

- Date of manufacture and/or serial number

- Equipment type number or model identification

- The title and version of each software element included in the installed software system shall be either marked or displayed on command on the equipment.

- When the title and version of the software are indicated only on a display, such information shall also be included in the equipment manual.

7. OTHERS :

7.1 - It is in the responsibility of **ComAp a.s. - CZECH REPUBLIC** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 23296/B2 BV issued on 15 May 2018 by the Society.

*** END OF CERTIFICATE ***