



MARINE DIVISION

Certificate number: 12753/C0 BV

File number: AP 3115

Product code: 3732H

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

MARINELEC TECHNOLOGIES

Quimper - FRANCE

for the type of product

LEVEL CONTROLLERS

DPBP711BVx, DPBP712BVx, DPBS311BVx, DPBS312BVx, DVES01BVx, DVES01SBVx
(x=0 or 1)

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS 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: 19 Apr 2018

For BUREAU VERITAS,

At BV NANTES, on 19 Apr 2013,

Joel Gaurin



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. 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 Division 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 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.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Level or Bilge water detectors comprising the following models:

DPBP711BVx	Level sensor, one level detected, 1 contact, PVC cylindrical float, circular mounting flange with junction box.
DPBP712BVx	Level sensor, two levels detected, 2 contacts, PVC cylindrical float, circular mounting flange with junction box.
DPBS311BVx	Level sensor, one level detected, 1 contact, stainless steel spherical float, square mounting flange with junction box.
DPBS312BVx	Level sensor, two levels detected, 2 contacts, stainless steel spherical float, square mounting flange with junction box.
DVES01BVx	Bilge water detector, one level detected, 1 contact, PVC cylindrical float, axial fixation by threaded barrel and nuts, with cable.
DVES01SBVx	Bilge water detector, one level detected, 1 contact, stainless steel cylindrical float, axial fixation by threaded barrel and nuts, with cable.

x=1:	Level detector including a resistor for line monitoring by an external device
x=0:	Level detector without resistor
Power Supply:	12/24 VDC
Temperature operating range:	-25°C to +55°C
Protection Index:	IP 68 for all level detectors.

2. DOCUMENTS AND DRAWINGS:

According to documents filed in AP 3115.

3. TEST REPORTS:

EMITECH: Ref. RQ-02-60589 dated 08/10/02, and ref. RQ-02-60589/1 dated 04/11/02.

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules 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: 33S/43S.**

4.4 - Usable for the detection of level of diesel oil, not to be used for the detection of level of fuel oil.

4.5 - Not to be used in areas considered as dangerous due to the presence of flammable or explosive gases or vapours.

4.6 - On board passenger ships, the external installations on tank bottom side bulkhead of fuel oil tanks are to comply with the provisions given in Regulation II-2/15.2.6.2.1 of the 1974 SOLAS Convention, as amended.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The **Level sensors** are to be supplied by **MARINELEC TECHNOLOGIES** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

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

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5.4 - Each equipment is to be supplied with manual (s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

Maker's name or trade mark,

Serial number of units,

Model identification under which it was type-tested.

7. OTHERS:

7.1 - This approval is given with the understanding that the Society reserves the right to require check tests to be carried out on the above mentioned equipment at any time, and that:

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will accept the responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the Equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 12753/B0 BV issued on 27/02/2008 by the Society.

***** END OF CERTIFICATE *****