



MARINE DIVISION

Certificate number: 14031/B0 BV

File number: ACE 10/804/01

Product code: 2650H

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

Vamp Ltd.
Vaasa - FINLAND

for the type of product

MULTIFUNCTION PROTECTION RELAYS

VAMP 200 Series
Type: 210, 230, 245, 255, 260 and 265.

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: 03 Nov 2014

For **BUREAU VERITAS**,

At BV HELSINKI, on 22 Oct 2009,

Tommy Andersson



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 :

VAMP 200 series are Protection Relays including the following components:

1.1 - Hardware:

VAMP 210:	Generator protection relay
VAMP 230, 245, 255:	Feeder manager terminal
VAMP 260:	Power monitoring unit
VAMP 265:	Differential protection relay

1.2 - Software / Firmware Version: 6.xx for all the Modules.

2. DOCUMENTS AND DRAWINGS :

VAMP 255/245/230 Operation and configuration instructions. Technical description ref. VM255.EN011.

3. TEST REPORTS :

VAMP: Test Programme for P200-series Protection relays, ref. VTS0003A, dated 30.05.03.

VTT: Sine Vibration Test, ref. TUO26-043681, dated 26.1.2004.

SGS: Environmental Test Report, ref. 228815-3, dated 22 Jan 2004.

SGS: Electromagnetic Compatibility EMC TEST REPORT, ref. 228815-2, dated 24 Feb 2004.

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: 31C.

4.4 - The machinery protection based on data processing techniques is to be duplicated by another and different system.

4.5 - Automation systems associated with essential services based on PLC's (including Programmable Terminals), once installed on board ship, are to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

4.6 - Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The VAMP 200 Series Protection Relays are to be manufactured, examined and tested by Vamp Ltd. in accordance with the type described in this certificate.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end Vamp Ltd. has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - Vamp Ltd. has declared to Bureau Veritas that the type of product described in this certificate may be manufactured at the following production site:

Vamp Ltd.
Yrittäjänkatu 15, 65380 Vaasa
FINLAND

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

6. MARKING OF PRODUCT :

- Trade name.

- Date of manufacture and serial number.

- Equipment type number or model identification under which it was type-tested.

- The version of the firmware, displayed upon request on the local panel.

7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that the Manufacturer, **Vamp Ltd., Yrittäjänkatu 15, 65380, Vaasa - FINLAND** will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 14031/A0 BV issued on 03/11/2004 by the Society.

*** END OF CERTIFICATE ***