



MARINE DIVISION

Certificate number: 25704/A0 BV

File number: AP 4251

Product code: 4441H

*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*

### CONTROLE MESURE REGULATION MARSEILLE - FRANCE

*for the type of product*

### ALARM AND MONITORING SYSTEMS

Smart Innovative Monitoring System  
SIMS

#### 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: 09 May 2017**

For BUREAU VERITAS,

At BV MARSEILLES, on 09 May 2012,

Sai-hang LOO



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:

**CMR Smart Innovative Monitoring System (SIMS)** is an integrated solution based on a PC/104 CPU Board and a LCD Touch Display dedicated to the monitoring of machinery parameters and the generation of alarms.

#### 1.1 - Common characteristics:

<b>LCD Type:</b>	Color TFT 5.7" (640x480)* (Resistive Touch Screen Controller)*
<b>CPU Board:</b>	PC/104 CPU Module*
<b>I/O Interfaces / Ports:</b>	2 x CAN (3-way plug-in terminal) 1 x RS232 - DB9 1 x RS485/422 - DB9 1 x Ethernet 10/100 MB - RJ45 1 x USB 2.0 2 x PS/2 (keyboard and mouse for maintenance purposes) 2 x Output Relays (SPDT)
<b>Power Supply:</b>	24 VDC Nominal (18 - 32 V)
<b>Ingress Protection Index:</b>	IP 65/20 (Front/Rear)
<b>BIOS Version:</b>	A6 dated 11/26/2010
<b>Application Software:</b>	CLARINUX Ver. 2.0.x

\*Note: LCD, Resistive Touch Screen Controller and CPU models: According to Doc. No. T10555-V1 dated July 2011.

### 2. DOCUMENTS AND DRAWINGS:

#### C.M.R.:

Smart Innovative Monitoring System, Product documentation package for Type Approval No. T10555-V1, dated July 2011  
User Manual, Ref. MA 676 Rev.0, dated 07/11  
Drawings No. 292C036, Ind. B (7 pages) dated 08/04/11 and No. 292C037, Ind. B (3 sheets) dated 07/04/11  
Application Note NAC 1684 No. 038, Rev. A dated 04/17/12  
Hardware Compatibility NAC 1684 No. 039, Rev. A

**Data Sheets:** CPU Board, LCD Module and Resistive Touch Screen Controller.

### 3. TEST REPORTS:

#### C.M.R.:

Type Approval Tests, Test Report No. NAC410/224 Rev. 0, dated 12/2011 including CCRM EMC Test Report No. CCRM/TR/435/2011/09/0070/V1 dated December 14th, 2011.

### 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: 33**
- 4.4 - The equipment fulfils the EMC requirements for installation in General Power Distribution zone only.
- 4.5 - To be flush mounted.
- 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.
- 4.7 - The above equipment is not intended to be used in Machinery Protection or Safety Related Systems. To be used for Category II Systems only.
- 4.8 - Factory Acceptance and On-board Tests are to be performed in accordance with requirements for Category II Equipment.

### 5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The SIMSs are to be manufactured, examined and tested by **CONTROLE MESURE REGULATION (C.M.R.)** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.
- 5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **CONTROLE MESURE REGULATION (C.M.R.)** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.
- 5.3 - **CONTROLE MESURE REGULATION (C.M.R.)** has declared to Bureau Veritas that the type of product described in this certificate is manufactured at the following production site:

**CONTROLE MESURE REGULATION (C.M.R.)**  
**Technopole de Chateau Gombert, rue John Maynard Keynes**  
**13381 MARSEILLE**  
**FRANCE**

**6. MARKING OF PRODUCT:**

- Trade name,
- Date of manufacture and serial number,
- Equipment type or model identification under which it was type-tested.

**7. OTHERS:**

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:

**CONTROLE MESURE REGULATION (C.M.R.)  
Technopole de Chateau Gombert, rue John Maynard Keynes  
13381 MARSEILLE  
FRANCE**

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.

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