



Marine &amp; Offshore

Certificate number: 49107/A1 BV

File number: AP4778

Product code: 3812H

*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*

**APLISENS S.A.**  
WARSAWA - POLAND

*for the type of product*

**TEMPERATURE SENSORS / PROBES / TRANSDUCERS**

Head temperature sensors CT series

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships/Offshore Units/Naval Ships/Yachats.

EC Code : 31/41

*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: 24 Oct 2023**

**For Bureau Veritas Marine & Offshore,**

At BV GDANSK, on 06 Dec 2018,

Janusz URBAN



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](http://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 2 page(s)

## THE SCHEDULE OF APPROVAL

### **1. PRODUCT DESCRIPTION :**

**CT series Marine version** is head temperature sensors for marine applications.

CT series, which combine the industrial temperature sensors and additional measurement equipment, is designed to measure and record the temperature of liquids, vapors, gases, dust or sludge.

Type	Serial Number	Temperature range(°C)
CT-GN1/250/G1/2"/2xPt 100/A/3AIIExi	KR 11162000	-25 to +500
CT-PZ T1/250/DN50PN40/Pt 100/A/3	KR 11162001	-25 to +500
CT-AL/GB/250/G1/2"/2xK/1/O	KR 11162002	-25 to +150
CT-GB1/250/M20x1,5/K/1/O/IIExi	KR 11162003	-25 to +150
CT-I6 250/Pt100/A/4	KR 11162004	-25 to +500
CT-GN3/OG2.9/250/M20x1,5/Pt 100/A/3/IIExi	KR 11162005	-25 to +500
CT-AL/GB3/SW1G/250/2xPT100/A/3	KR 11162006	-25 to +150
CT-PZ P1/250/J/1/O	KR 11162007	-25 to +500

### **Characteristics :**

Maximum sensor head operating temperature : 150°C or max transmitter operating temperature.

Relative humidity : max 95% with condensation.

Degree of protection: IP65.

### **2. DOCUMENTS AND DRAWINGS :**

-Approval Documentation CT series temperature sensors, Marine version, Ref : DT.CT.01, dated 13-02-2017.

-User's Manual, Ref : IO.CT.01, dated Feb. 2017.

### **3. TEST REPORTS :**

**RADMOR S.A. Testing Laboratory :**

- Type Test report, Ref : No. NL/1/17, dated Jan. 2017.

### **4. APPLICATION / LIMITATION :**

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships/Offshore Units/Naval Ships/Yachats.

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: 31/41.**

### **5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The above products are to be supplied by **APLISENS S.A.** 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 - **APLISENS S.A.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - **APLISENS S.A.** has declared to Bureau Veritas the following production site(s):

**APLISENS S.A.**  
**ul. Morelowa 7**  
**03-192 WARSZAWA**  
**POLAND**

### **6. MARKING OF PRODUCT :**

- Maker's name or trade mark.

- Serial number of the units.

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

- Ex marking, as relevant.

### **7. OTHERS :**

7.1 - It is **APLISENS S.A.**'s responsibility 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 No. 49107/A0 BV issued on 24 Oct 2018 by the Society.

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