

**MARINE DIVISION**  
17 Bis Place des Reflets - La Défense 2  
92400 Courbevoie - France  
Tel 33 1 42 91 53 48  
Fax 33 1 42 91 28 94



Certificate N°:  
**11626/A0 BV**  
The attached Schedule forms part of the certificate  
File Number : AP 3421  
Product Code : 3812H



## CERTIFICATE OF TYPE APPROVAL

*This is to certify that the product identified below was found to be in compliance with the relevant hereunder stated Regulations & standards*

### TEMPERATURE SENSORS / PROBES / TRANSDUCERS

Field mounted temperature transmitter, HART programmable Type: TH 202

MANUFACTURED BY:

**ABB Industrie- Division Systèmes Ingénierie**  
Massy - FRANCE

SPECIFIED REGULATIONS & STANDARDS :

BV Rules for the Classification of Steel Ships, Pt C, Ch 3, Sec 6

**The Approval is valid until : 25/04/2007**

BUREAU VERITAS PARIS

At Paris la Défense, on : 25/04/2002

**J.BENOIT**  
For the Secretary

This Certificate remains valid until the date stated on hereunder, unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory into service.

This Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested.

This Certificate is not valid without the stamp of the above mentioned by BUREAU VERITAS Inspection Center.

The manufacturer should notify BUREAU VERITAS of any modification or changes to the equipment in order to obtain a valid Certificate.

The latest published Regulations or Standards referred to above and the Marine Division General Conditions are applicable.



## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

**Field mounted temperature transmitter, HART programmable  
Type: TH 202 (Without Display)**

⌘ Input:

- Resistance thermometer (2, 3, 4-wire circuit)
- Thermocouples
- Resistance remote signalling unit (0 ..5000 ohms)
- Voltages, mV (-125.. 1200 mV)

⌘ Output:

- 2-wire technique
- 4 ..20 mA, HART signal

⌘ Power supply:

- 8,5... 30V dc

### 6. APPLICATION / LIMITATION OF USE

6 1 - Approval also valid for ships to be granted with the notations: AUT-UMS, AUT-CCS, AUT-PORI and AUT-IMS.

6 2 - BV Rules for the Classification of Steel Ships

6 3 - This certificate does not cover the optional digital Indicator.

### 8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS

As per requirements of regulations stated on the front page of the certificate.

### 9. MARKING FOR IDENTIFICATION

- Maker's name or trade mark.
- Serial number of the units
- Equipment type number or model identification under which was type-tested.

### 10. OTHERS

This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval

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## CERTIFICATE OF TYPE APPROVAL

*This is to certify that the product identified below was found to be in compliance with the relevant hereunder stated Regulations & standards*

### TEMPERATURE SENSORS / PROBES / TRANSDUCERS

Temperature Sensors Type: PT100 et IC.

**MANUFACTURED BY:**

**ABB Industrie- Division Systèmes Ingénierie**  
Massy - FRANCE

**SPECIFIED REGULATIONS & STANDARDS :**  
BV Rules for the Classification of Steel Ships

**The Approval is valid until : 25/04/2007**

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The manufacturer should notify BUREAU VERITAS of any modification or changes to the equipment in order to obtain a valid Certificate.  
The latest published Regulations or Standards referred to above, and the Marine Division General Conditions are applicable

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File Number : AP 3421

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

Temperature Sensors type PT100, IC.

Description	Type
PT100	V10515 2i*1 CE00 CE
Thermocouple Temperature Sensor	V10515 2i*1 HH00 CE

### 6. APPLICATION / LIMITATION OF USE

6.1 - Approval also valid for ships to be granted with the notations: AUT-UMS, AUT-CCS, AUT-PORI and AUT-IMS.

6.2 - BV Rules for the Classification of Steel Ships.

### 8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS

As per requirements of regulations stated on the front page of the certificate.

### 9. MARKING FOR IDENTIFICATION

- Maker's name or trade mark
- Serial number of the units
- Equipment type number or model identification under which it was type-tested.

**10. OTHERS**

This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.