



# DET NORSKE VERITAS

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## TYPE EXAMINATION CERTIFICATE

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**CERTIFICATE NO. A-12534**  
This Certificate consists of 2 pages

*This is to certify that the*  
**Sound Reception System**

*with type designations*  
**Phontech SR8200 or Kockum Sonics S900**

*Manufactured by*  
**Jotron Phontech as**  
**HORTEN, Norway**

*is found to comply with*

IMO Res. MSC 86(70) Annex 1 Recommendation on Performance Standards for Sound  
Reception Systems

IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of  
the global maritime distress and safety system (GMDSS) and for electronic navigational  
aids

*Place and date*  
Høvik, 2011-10-28  
for DET NORSKE VERITAS AS

Frode Brattum  
Head of Section



Local Office  
Sandefjord

*This Certificate is valid until*  
2013-12-31

Roger Lauritsen  
Surveyor

**Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Examination Certificate and not to the approval of equipment/systems installed.**

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: A-12534  
Case No.: 262.1-006224-2

### Product description

- One SR8200, MASTER STATION
- Four SR8201 MICROPHONES

### Location

(protected)  
(exposed)

### Applications/Limitations

- The SR8200 and the four SR8201 are to be installed in accordance with the installation procedure described in Doc.No. 08800-002-DE.
- Cabling: twisted pair  $\geq 0,75 \text{ mm}^2$ , screened

### Type Approval documentation

- Handbook for sound reception system SR8200, Document 08800-002-DE, Rev.no.0.
- Sound reception system, master station board circuit diagram. Drawing: 97802-006-CD.
- EMC Testing of Sound reception system, type SR8200. Report no: 2002-3357.
- Environmental testing of Sound reception system, type SR8200. Report no: 2003-3331.
- Performance test, MSC 86-70-1.doc.

### Tests carried out

- Performance testing for compliance with MSC. 86(70) annex 1
- Environmental testing: IEC 60945 (2002)

### Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location and in addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage

### Certificate retention survey

A retention survey is to be performed upon renewal of this certificate.

The scope of the retention/renewal survey is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

END OF CERTIFICATE

