



Certificate

This certificate is issued to

Comar Systems Limited

of

Unit 7 Medina Court
Arctic Road
Cowes
Isle of Wight
PO31 7XD
United Kingdom

to certify that the Equipment known as

CSB200

as described in the Annex to this certificate
conforms to the essential requirements of Directive 1999/5/EC
of the European Parliament and European Council on the basis
of Technical Construction File number CSB200.002 TCF Index V1.0
in relation to the essential requirements of
Articles 3.1(a), 3.1(b), 3.2 & 3.3(e) of the Directive.

Signed:

On Behalf of BABT

Issue Date: 04 October 2006

Number: NC/12936 Issue: 01

This certificate is issued by BABT and represents a formal Notified Body opinion under Annex IV of Directive 1999/5/EC permitting the use of the BABT C0168 mark on the equipment described above subject to the equipment meeting the compliance requirements of all applicable EU directives. This certificate is not transferable and remains the property of BABT.



CERTIFICATE

Equipment Details:

<i>Total Units:</i>	1
<i>Unit Type:</i>	CSTDMA Transponder R&TTE class 2
<i>Equipment Category:</i>	Maritime radio equipment.
<i>Trade Name:</i>	AIS Class B Marine Transponder
<i>Type Designation:</i>	CSB200
<i>Intended Use of Equipment:</i>	Fixed marine transponder with GPS (Global Positioning System) receiver, for use onboard non-SOLAS vessels.
<i>Frequency Range(s):</i>	Transmitter: 156.025 – 162.025 MHz Receiver: 156.025 – 162.025 MHz GPS: 1575.26 MHz
<i>Temperature Range(s):</i>	-25°C to +55°C
<i>No. of Channels:</i>	240
<i>Channel Spacing(s):</i>	25kHz

Designation of Emissions: (ITU) 25K0FXDXT

Power Characteristics: Conducted, 1.4125W min. 2.818 W max.

Duty Cycle: 0.02667s ON, 29.973s OFF: 0.08898%

Modulation Modes: 25kHz GMSK (AIS, TX and RX)
25kHz AFSK (DSC, RX only)

Specifications(s):

R&TTE Article 3.1(a)	EN 50384: 2002 EN 50385: 2002 EN 50383: 2002 EN 60950-1: 2001 IEC 60945: 2002-08
R&TTE Article 3.1(b)	EN 301 843-1 v1.2.1 (2004-06) IEC 60945: 2002-08
R&TTE Article 3.2	IEC 62287-1: 2006-03 Clause 11, for the AIS transmitter and receivers IEC 62287-1: 2006-03 Annex C, Clause C4, for the DSC receiver IEC 61108-1: 2003-07 Clauses 4.3.7 & 4.3.8, for the GPS receiver
R&TTE Article 3.3	IEC 62287-1: 2006-03 Clause 9, for operation in intended environment IEC 62287-1: 2006-03 Clauses 10, 12,13 for operational requirements

Comments:

R&TTE Article 3.1(a) [Safety] tested by TÜV Product Service
Test Report Number: 071-200526-000
Supplier statements in the Technical Construction File
MPE calculations performed by SRT

R&TTE Article 3.1(b) [EMC] tested by Hursley EMC Services
Test Report Number: 06R329 CR

R&TTE Article 3.2 [Spectrum Usage] tested by Software Radio Technology & BSH
Test Report Numbers: LD2235 Issue 3.0
BSH/46162/4320358/06

R&TTE Article 3.3 [Access to emergency services] tested by BSH
Test Report Number: LDE2299 Issue 1
BSH/46162/4320358/06/S3140

Additional Information:

Compliance with the R&TTE directive will depend upon installation conditions. Positioning of the equipment must be such as to ensure that the equipment is protected from the ingress of water. This responsibility resides with the system installer.

Compliance with Article 3.2 of the R&TTE Directive 1999/5/EC does not of itself give an automatic presumption of conformity with National Radio Spectrum Standards. It is therefore mandatory for this equipment to be notified to the relevant national authority responsible for spectrum management 4 weeks before placing it on the market in accordance with Article 6.4 of the R&TTE Directive 1999/5/EC.

Signed: 

Date: 4 October 2006

on behalf of BABT