

EC Type Examination Certificate

This is to certify that:

Kentec Electronics Limited
Unit 25-27
Fawkes Avenue Questor
Dartford
DA1 1JQ
United Kingdom

Holds Certificate Number:

BSI/A.1/3.51/550734

In respect of:

MED/3.51 (a) & (b) - Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces.

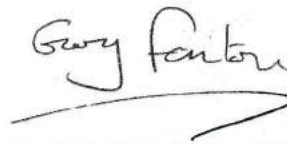
(a) - Control and indicating equipment, (b) - Power supply equipment.

Product Description: Analogue Addressable Fire Alarm Control Panel with General Emergency Alarm.

Syncro ASM M8000 Series, Models MA80161M2, MA80162M2, MH80161M2, MH80162M2.

Specified standard: EN 54-2 (1997) + AC (1999) + A1 (2006), EN 54-4 (1997) + AC (1999) + A1 (2002) + A2 (2006), IEC 60092-504 corr1 (2011), IEC 60533 (1999).

On the basis that BSI carried out the relevant EC type examination procedures for the equipment identified above which was found to be in compliance with the Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the schedule attached hereto. The attached schedule of approval forms part of this certificate.



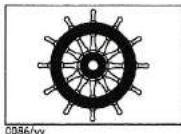
For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 0086):

Gary Fenton, Global Product Certification Director

First Issued: 2010-01-07

Latest Issue: 2017-07-04

Expiry Date: 2022-07-03



0086/yy

Page: 1 of 3

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BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK. A member of BSI Group of Companies.

EC Type Examination Certificate

No. BSI/A.1/3.51/550734

SCHEDULE OF APPROVAL

Approval Documentation that forms part of this certification:

Drawing No.	Rev./ Issue No.	Date	Title
M2	07	19/08/16	M2 385 X 310 X 90 Surface Box Details
ML2	02	13/03/07	2005 Style 385 x 310 Lid with Aperture
MP214	04	22/02/10	Syncro AS Analogue Addressable Control Panel Plate Detail
K8821	08	07/12/15	Syncro AS Marine two loop control panel construction
SD586	4v3	30/07/09	Syncro AS loop 2 Board
Man-1100M	03	Jun 2013	User Manual
Man-1096M	16	Feb 2017	Installation Manual
TP8000	11	15/06/15	Syncro AS control Panel Test procedure
TPS586	04	13/05/16	Syncro AS Loop 2 Board Test Procedure
SD785MAH	2v3	10/09/14	Syncro AS Marine AH
Supporting Documentation			
228/4944547-2		06/11/07	BSI – EMC Test Report
228/7161856		14/03/08	BSI – EMC Issue 2 Test Report
228/4944547-1		06/11/07	BSI – ENM Test Report
222/7000365		08/11/07	BSI – Safety Test Report
703002		20/03/07	FDA Technology –Software Test Report
244/7000367-2		19/09/07	BSI – Marine Test Report
244/7000367-1		07/11/07	BSI – Environmental test Report
244/7000367-2		22/10/07	BSI – Issue 2Marine Environment Test Report
244/7138115		01/05/07	BSI – Performance Test Report
244/7376099		16/10/09	BSI – Test Report to updated standards
2411/7374007		09/12/09	MED Module B Technical File Review Report

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Page: 2 of 3

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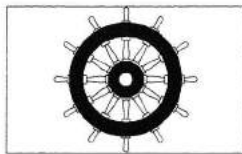
EC Production Quality Assurance Certificate

No. BSI/MED/PC/550735

Conditions of Certification

- i) This BSI/MED/PC/550735 Issue 7 certificate remains valid unless cancelled or revoked, provided the conditions listed below are complied with and the equipment remains satisfactory in service
- ii) This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality system, which have not been notified to, and agreed with the notified body named on this certificate and/or after lapse of time, withdrawal or revocation of the EC Type Examination (Module B) Certificate.
- iii) The equipments detailed above are to be manufactured in accordance with Conformity to Type Based on Quality Assurance of the Production Process (Module D) Certificate of the Marine Equipment Directive.
- iv) If the specified standards are amended during the validity of this certificate, the product type are to be re-approved prior to it being supplied to vessels to which the amended standards apply.
- v) Production tests are to be conducted in accordance with the applicable requirements of the Directive and be recorded by the manufacturer in accordance with the approved Conformity to Type Based on Quality Assurance of the Production Process (Module D) Certificate of the Marine Equipment Directive.
- vi) This certificate authorises the manufacturer or his authorised representative established within the Community in conjunction with the EC Type Examination (Module B) Certificate of the equipment listed in the scope to affix the "Mark of Conformity" (wheelmark).
- vii) Each equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity".

Example for the Application of the "Mark of Conformity":



0086/YYYY

"Wheelmark" Format yyyy Last four digits of year mark affixed.
0086 Notified Body number undertaking surveillance module.

First Issued: 2010-01-07

Latest Issue: 2017-07-04

Expiry Date: 2020-07-03

Page: 3 of 3

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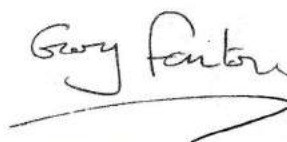
Holds Certificate Number:

BSI/MED/PC/550735

In respect of:

MED/3.51 (a) & (b) - Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces. (a) Control and indicating equipment, (b) Power supply equipment.

On the basis that BSI carried out the relevant Production Quality Assurance procedures for the equipment identified above which was found to be in compliance with the Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the schedule attached hereto. The attached schedule of approval forms part of this certificate.



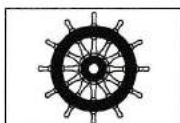
For and on behalf of BSI, a Notified
Body for the above Directive
(Notified Body Number 0086):

Gary Fenton, Global Product Certification Director

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Page: 1 of 3

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EC Production Quality Assurance Certificate

No. BSI/MED/PC/550735

Schedule of Approval

Product Description:

Item		Module B Data		
MED/3.51 (a) & (b)	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, machinery spaces and unattended machinery spaces. (a) Control and indicating equipment (b) Power supply equipment	Certificate No.	Date	Notified Body
	Syncro ASM M8000 Series - Analogue Addressable Fire Alarm Control Panel with General Emergency Alarm. Models - MA80161M2, MA80162M2, MH80161M2, MH80162M2	BSI/A.1/3.51/550734	04/07/2017	0086

The applicant/manufacturer maintains and applies a quality management system in accordance with the requirements of the Marine Equipment Directive Annex II, Module D.

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Page: 2 of 3

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EC Type Examination Certificate

No. BSI/A.1/3.51/550734

SCHEDULE OF APPROVAL

Conditions of Certification

- i) This BSI/A.1/3.51/550734 issue 5 certificate remains valid unless cancelled or revoked, provided the conditions listed below are complied with and the equipment remains satisfactory in service
- ii) The equipment detailed on page 1 on this certificate is to be manufactured in accordance with Conformity to Type Based on Quality Assurance of the Production Process (Module D) of the Marine Equipment Directive.
- iii) Detailed User instructions are to be provided with each product.
- iv) If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
- v) Production tests are to be conducted in accordance with the applicable requirements of the IMO Resolutions and applicable standards and be recorded by the manufacturer in accordance with the approved Conformity to Type Based on Quality Assurance of the Production Process (Module D) of the Marine Equipment Directive.
- vi) Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity".

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