Type Examination Certificate

This is to certify that:

Kentec Electronics Limited
Unit 25-26
Fawkes Avenue
Questor
Dartford
DA1 1JQ
United Kingdom

Holds Certificate Number: BSI/MED/3.51/755656

In respect of:

MED/3.51
Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces
(a) Control and Indication equipment
(b) Power Supply Equipment

Product - 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 including AC:1999 + A1:2006, EN 54-4:1997 including AC:1999 + A1:2002 + A2:2006, IEC 60092-504:2016, IEC 60533:2015

On the basis that BSI carried out the relevant EU type examination procedures for the equipment identified above which was found to be in compliance with the Marine Equipment Directive (MED) 2014/90/EU as amended, 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 2797):

Graeme Tunbridge, Senior Vice President Global Regulatory & Quality

First Issued: 2021-11-29 Latest Issue: 2026-04-29 Expiry Date: 2027-07-03

PRODUCTS RvA C 646

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BSI Group The Netherlands B.V., registered in the Netherlands under number 33264284, at John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands
A member of BSI Group of Companies.

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SCHEDULE OF APPROVAL

Approval Documentation that forms part of this certification:

Drawing No.	Rev./ Issue No.	Date	Title
S785AH	1.20	21/08/25	Syncro AS bill of materials
S785AH PAF	19	Aug 25	S785AH Layout
B1993	05	-	CFTBN 3 bx400 2-PART FUSED TERMINAL BLOCK with FIXING SCREW Datasheet
VTX-146-100-830C	1	24/06/19	Mains Transformer
Man-1096M_SyncroASM	21	May 24	Synchro AS Product Manual
Man-1100M_SyncroASM_user-manual_03	3	June 13	Syncro AS User Manual
MPL-1142	-	27/03/12	Model label
MP0214	10	30/03/23	Syncro AS plate - RAL 7047 SATIN ** Previously - MP214LGUK - **
SD785AH-7-Syncro AS-v3	2v3	10/09/14	Syncro AS AH D1052
K7670	17	Jul 25	Syncro AS Construction Final Assembly
MB0201	13	14/04/23	Surface Box 385 x 310 x 90 ** Previously - M2 - **
ML0201	04	15/11/22	Lid For L2 M2 Box 385 x 310 ** Previously - ML2 - **
S586	15	28/10/24	S586 layout PAF Rev 11 - K8510
S586 idented level BOM	1.10	Mar 25	Loop 2 expansion card bill of materials
B2652 Mains Filter	-	May 14	B84111A TDK EMC Filters
Syncro ASM datasheet	03	Feb 22	DS51 Syncro ASM data sheet
MP0214	10	30/03/23	Syncro AS Control Plate [c w Enable Control K-Switch]. ** Previously - MP214 - **
SD586-2-Syncro AS Loop 2-v4	04	30/07/09	Syncro AS Loop 2 Board
K9811-13	02	01/07/25	Syncro AS sheet Critical Component List
K10137	14	19/02/25	Syncro AS IC Programming details
Syncro AS Firmware update V662	6.64	Mar 25	Syncro AS Firmware V6.64

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Supporting Documentation

Technical File	Syncro AS 8000 Series including Syncro AS Marine Firmware Version V6.64 and Technical file version Rev.1.3 H. BSI Ref 7374007, 7559852, 7803272, 8631841, 3267543, 3702418, 30565784.	
Test Report		
228/7161856	14/03/2008	BSI – EMC Issue 2 Test Report
228/4944547-1	06/11/2007	BSI – EMC Test Report
228/4944547-2	06/11/2007	BSI – EMC Test Report
222/7000365	08/11/2007	BSI – Safety Test Report
703002	20/03/2007	FDA Technology –Software Test Report
244/7000367-1	07/11/2007	BSI – Environmental test Report
244/7000367-2	22/10/2007	BSI – Issue 2 Marine Environment Test Report
244/7138115	01/05/2007	BSI – Performance Test Report
244/7376099	16/10/2009	BSI – Test Report to updated standards
2411/7374007	09/12/2009	MED Module B Technical File Review Report
104444067LHD-001	05/01/2021	Intertek Test Report covering 6GHZ test IEC 61000-4-3
3413501	07/09/2021	BSI – Limited Testing, Includes Software Ver V6.553T3
3702418	22/11/2022	BSI – Technical file assessment of version 1.3D including software update to Ver 6.60
30565780	20/03/2026	BSI – Limited Testing to include Software Ver V6.64
30565784	25/03/2026	MED Module B Technical File Review Report

The products were assessed against the requirements of the Marine Equipment Directive 2014/90(EU) as amended & 2025/1533 (EU) (MED/3.51a Row 2 of 2 & MED/3.51b Row 1 of 1).

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SCHEDULE OF APPROVAL

Certificate Amendment Record and BSI internal Review relating to this Certificate

Issue date	Comments	BSI Review No.
November 2021	First Issued	2797:21:3503511
January 2023	Document update to reflect software version 6.60	2797:23:3702419
April 2026	Document update and update software version 6.64	2797:26:30565785

Conditions of Certification

i) This 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) SOLAS 74 Reg. II-2/7, SOLAS 74 Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 9, IMO Res. MSC.391(95)-(IGF Code) 11, IMO MSC.1/Circ.1242, IMO MSC.1/Circ.1487, IMO MSC.1/Circ.1528 & IMO MSC.1/Circ.1554 requirements, as applicable.

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".

vii) Detailed User instructions are to be provided with each product.

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