

# EC CERTIFICATE TYPE EXAMINATION (MODULE B)

DNV-GL

This is to certify that:

DNV GL SE, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No.	<b>45 306 - 16 HH</b>
Applicant	<b>Totem Plus Ltd.</b> <b>6 Haneviim St.</b> <b>47279 Ramat-Hasharon, ISRAEL</b>
Manufacturer	<b>Totem Plus Ltd.</b> <b>6 Haneviim St.</b> <b>47279 Ramat-Hasharon, ISRAEL</b>
Product Description	<b>Track control system (TCS), Category C</b>
Product Name	<b>TOTEM Plus TCS</b>
Trade Name	<b>TOTEM Plus TCS</b>
Specified Standards	<b>IMO Res. A.694(17), MSC.74(69), MSC.191(79), IEC 60945 (2002) incl. Corr.1 (2008), IEC 61162-1 (2010), IEC 61162-2(1998), IEC 62065 (2014), IEC 62288(2014).</b>
Related Directive	<b>(EU) 2015/559</b>
Equipment Section	<b>Navigation equipment</b>
Annex A.1 Item No.	<b>A.1/4.33</b>
Date of Issue	<b>2016-08-11</b>
Expiry Date	<b>2021-08-10</b>

**DNV GL SE**

**Notified Body No.: 0098**

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**Christine Mydlak-Röder**

## Schedule of Approval

### Approval Documentation

**Manual:**

TOTEM Plus ECDIS (Rev. 1.6 DEC 2015)

TOTEM Plus ECDIS Installation Manual (Version 2.1 JAN 17, 2016)

**Test report :**RAYTHEON: TTD01-09-10\_NP5000 (Complete type test documentation), , TTD01-04-12\_NP5000,  
TTD01-01-13\_NP5000, 9049 15 68411 TOTEM TCS.

### Technical Data

The track control system TOTEM Plus consisting of the following components are necessary for operation:

ECDIS Electronic unit type: TOTEM Plus with Software version 2.1.x

Trackpilot Interface type: TOTEM Plus

**To be connected alternatively with:**

Heading Control System type: NautoPilot 5100, or

Heading Control System type: NautoPilot 5300, or

Heading Control System type: NautoPilot 5400, or

Heading Control System type: NautoPilot 5500, or

Heading Control System type: PT900A, or

Heading Control System type: PT900D, or

Heading Control System type: PT900A Plus

For component information, refer to respective type approval certificates.

### Remarks

none

### Limitations on the acceptance or use of the product

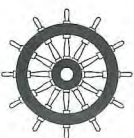
none

### Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE, as the Notified Body, of any modifications or changes to the approved equipment.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

An U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th 2004.



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body.

# EC CERTIFICATE OF CONFORMITY QUALITY SYSTEM (MODULE D)

DNV·GL

DNV GL SE as the notified body, notified by the German Federal Ministry of Transport, Building and Urban Development, performing the quality assessment procedures certifies that the manufacturer maintains and applies a quality system which is in compliance with the requirements of the Marine Equipment Directive (MED) 96/98/EC, as amended, ensuring that the equipment identified below is conform to the type as described in the EC Type Examination Certificate, subject to any conditions in the annex attached hereto.

Certificate No. **45 307 - 16 HH**

Manufacturer **Totem Plus Ltd.**  
**6 Haneviim St.**  
**47279 Ramat-Hasharon, ISRAEL**

Scope:

**A.1/4.33 Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)**

Related Directive **(EU) 2015/559**

Date of Issue **2016-08-11**

Expiry Date **2021-08-10**

**DNV GL SE**

Notified Body No.: **0098**

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**Christine Mydlak-Röder**

**Certificate No: 45 307 - 16 HH****Date of Issue: 2016-08-11****Remarks**

None

**Notes:**

This certificate authorises the manufacturer in conjunction with the EC Type Examination (Module B) Certificate of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.

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.

The manufacturer is allowed to affix the U.S. Coast Guard approval number(s) as stated in the annex attached hereto and as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27<sup>th</sup> 2004.

**Wheelmark Format and application:**

0098/yy

0098  
yyNotified Body number undertaking quality surveillance  
Last two digits of year in which the mark is affixed

**Annex to  
Certificate No: 45 307 - 16 HH**

**Date of Issue: 2016-08-11**

<b>Item</b>	<b>Item Description</b>			
	<b>Product Name</b>			
	<i>Trade Name</i>			
	<i>Module B No.</i>	<i>Date of issue</i>	<i>Date of expiry</i>	<i>Notified Body</i>
	<i>USCG Approval No.</i>			
	<i>Comment to USCG Approval (if applicable)</i>			
<b>A.1/4.33</b>	<b>Track control system (working at ship's speed from minimum manoeuvring speed up to 30 knots)</b>			
	<b>TOTEM Plus TCS</b>			
	TOTEM Plus TCS			
	45 306 - 16 HH	2016-08-11	2021-08-10	0098
	165.112 / EC 0098 / 4530616			
none				