TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB000094E

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as “Forskrift om Skipsutstyr” by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: Power supply equipment

with type designation(s)
T2000 range of marine panels Power Supply Equipment

issued to
Tyco Fire & Security GmbH
Neuhausen am Rheinfall-Schaffhausen, SH, Switzerland

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
item No. MED/3.51b. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9, IGF Code 11, IMO MSC.1/Circ.1242 and IMO MSC.1/Circ.1554

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-01-14**.

Issued at **Høvik** on **2025-01-15**

DNV local unit:
UK & Ireland CMC & VMC

Approval Engineer:
Frode Nygård

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

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. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Power supply equipment for T2000 range of marine panels**,** T2000, T2000R, T2000CV, T2000RCV.

Type	Number	Equipment
T2000	557.200.610	Standard Two to Eight Loop Marine Panel (Mild steel enclosure)
T2000R	557.200.611	Standard Marine Repeater with Power Supply Unit 240Vac (Mild steel enclosure)
T2000CV	557.200.620	3 Loop Marine Panel (Mild steel back box)
T2000RCV	557.200.621	Marine Indicating Repeater without Power Supply Unit 24Vdc (Mild steel enclosure)

Place of manufacture
Tyco Fire & Security Czech Republic s.r.o.
Ulice Osvobozeni 363, Rájecko
Czech Republic

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex- certificate issued by a notified/recognized Certification Body.

The equipment are found to comply with the following location/application dependent requirements (for definition of each of the location classes, see below the table):

MODEL	TEMPERATURE	VIBRATION	EMC
T2000 T2000R T2000CV T2000RCV	TEM-B	VIB-A	EMC-B

Temperature:	TEM-B: Protected (-10°C-70°C)	(ref. IEC 60092-504:2016 table 1 item 6-7)
Vibration:	VIB A: General applications (±1 mm / ±0.7 g)	(ref. IEC 60092-504:2016 table 1 item 10)
EMC:	EMC B: Bridge and deck zone	(ref. IEC 60092-504:2016 table 1 item 13-20)

Type Examination documentation

Tests carried out

Applicable tests according to:
- IEC 60092-504:2016
- IEC 60533:2015
- EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006
- EN 54-2:1997 incl. AC:1999 and A1:2006 (for Control and Indication Equipment)

Marking of product

For identification to this type examination certificate the products shall be marked with:
- Manufacturer's name or trademark
- Type designation
- Mark of Conformity (wheel mark), followed by
    - identification number of the NoBo involved in production control (MED D)
    - the year the mark is affixed
    - Example: 0575/2025