

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Fixed oxygen analysis and gas detection equipment**

with type designation(s)  
**UNIPHOS-500DT**

Issued to

**UNIPHOS ENVIROTRONIC PVT. LTD.**  
**Gujarat, India**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2019/1397**,  
**item No. MED/3.54. SOLAS 74 as amended, Regulation II-2/4 & VI/3 and FSS Code 15**

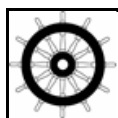
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-01-12**.

Issued at **Hamburg** on **2020-01-13**

DNV GL local station:  
**Mumbai NB & CMC**

Approval Engineer:  
**Didier Girardin**



Notified Body  
No.: **0098**

for **DNV GL SE**

**Gerhard Aulbert**  
**Head of Notified Body**

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 GL SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



## Product description

### Main technical data

#### [UNIPHOS-500DT]

Swappable gas Sensor for oxygen, combustible gases and toxic gases

Measuring range: PPM,%LEL, %v/v

Indicator: local LED display

Output: 4..20 mA, 3 Relay

Power: DC 24 V (< 3W)

Operating conditions: -20 to 55°C, below 95% RH

Dimensions: 250x170x105mm

Weight: 2.5 kg – cast aluminium alloy/SS

Ingress proof rating: IP66

## Place of manufacture

P.O Nahuli TAL-UMBERGAON

Dist. Valsad

Gujarat, India

Pin Code 396108

## 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 is compliant with following DNVGL location Class and application:
  - EMC-A : installation suitable except for Bridge zone (*IEC 60092-504 (2016) table 1 item 19-20*)
  - Enclosure: (IP66) (Location according *ref. IEC 60529/AMD2:2013*).
  - VIB-A : General applications (*ref. IEC 60092-504 (2016) table 1 item 10*)
  - TEMP-D : Location (-25°C to +70°C) (*ref. IEC 60092-504 (2016) table 1 item 6-7*),
- Following paragraph, which is for information only, is based on information received from the manufacturer, but not verified by DNV GL.

Information on Ex-Certification received from manufacturer – Not verified by DNV GL		
Equipment	Certified	Certificate No.
<b>UNIPHOS -500DT</b>	Ex II 2 G	14ATEX0304X issue 14.03.2016
	Ex db IIC T6 Gb, -20°C ≤ Ta ≤ +40°C	14ATEX0304X/1 issue 19.12.2017
	Ex db IIC T5 Gb, -20°C ≤ Ta ≤ +55°C	14ATEX0304X/2 issue 21.09.2018
	Ex db IIC T4 Gb, -20°C ≤ Ta ≤ +85°C	14ATEX0304X/3 issue 16.07.2019

Job Id: **344.1-009072-1**  
Certificate No: **MEDB000052A**

## Type Examination documentation

Hidden

Reports

UEPL_E&I_Test_039	04.09.2018	IEC 60079-29-1 2016
KPL/BTG/19/07-75	11.12.2019	IEC 60092-504:2016
MBT NTC 2019F01001	21.05.2019	IEC 60092-504:2016
WO ETL 086 19-20	30.08.2019	IEC 60092-504:2016
KLPL BTG 19 07-105	12.12.2019	IEC 60092-504:2016
TUV/PTL/17-18/EMC/0020	02.02.2018	IEC 60092-504:2016
AAEMT_EMC_191007-01	11.01.2020	IEC 60092-504:2016
ERTL(N) 90(4)-(2019-20) C0367	10.11.2019	IEC 60092-504:2016

## Tests carried out

IEC 60092-504:2016

IEC 60533:2015.

*Category 3: (explosive gas atmospheres),*

EN 50104:2010,

EN 60079-0 :2012 incl. A11 :2013,

EN 60079-29-1:2016.

## Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer name
- Type designation with device type
- Serial Number
- Mark of Conformity (see footer on page 1)

End of Certificate