

Translation

(1) **EU-Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 16 ATEX 179791 X **issue:** 01

(4) for the product: Radio transceiver model TT-3965A

(5) of the manufacturer: **Thrane & Thrane A/S**

(6) Address: Industrivej 30
9490 Pandrup
Denmark

Order number: 8000465358

Date of issue: 2016-12-13

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential ATEX Assessment Report No. 16 203 189382.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 EN 60079-11:2012

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 2 G Ex ib IIB T4**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The deputy head of the notified body


Christian Roder

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 16 ATEX 179791 X issue 01**

(15) Description of product

The radio transceiver model TT-3965A is designed in the type of protection "Intrinsic Safety" and is intended for the use onboard ships and on land in classified areas Zone 1 and Zone 2. The radio transceiver is a modified version of the radio transceiver SAILOR SP3560 UHF, which is already separately certified with the EC-Type-Examination Certificate TÜV 08 ATEX 353821 X with associated test report No. 08 203 353821.

The supply can be established either from the secondary battery type B3906, secondary battery B3504 or from the primary battery B3503.

The secondary battery B3906 is a modified version of the secondary battery B3504 with a red instead of the blue housing. The charging is only permitted outside the hazardous area with the associated non-ATEX chargers.

Both the primary and the secondary batteries are designed intrinsically safe and may be changed inside the hazardous area.

The primary battery B3503 and the original secondary battery B3504 are already examined within the afore-mentioned EC-Type-Examination Certificate.

Type key:

No further type key

Technical data:

Accessory interface connector.....in type of protection Intrinsic Safety Ex ib IIB
only for the connection to certified intrinsically safe circuits

Maximum values: $U_o = 8.4 \text{ V}$
 $I_o = 450 \text{ mA}$

Long-term output power $P_o = 1.8 \text{ W}$
Retangular characteristics

$C_o = 150 \text{ nF}$
 $L_o = 10 \text{ } \mu\text{H}$

Permissible range of ambient temperature range:

$-20 \text{ }^\circ\text{C} \leq T_a \leq +55 \text{ }^\circ\text{C}$

Approved accessories:

Charger CH3505	403505A
Charger CH3507	403507B
Charger CH3508	403508B
UHF Antenna	88-125662
UHF Antenna	62-125662
Lanyard	41-124375
Belt clip	62-124320
Leather case	403500-207
Service cable	403500-958

Schedule to EU-Type Examination Certificate No. TÜV 16 ATEX 179791 X issue 01

(16) Drawings and documents are listed in the ATEX Assessment Report No. 16 203 189382

(17) Specific Conditions for Use

1. Do not change the battery in wet or humid environments.
2. Always keep battery connectors dry and clean.
3. Use only with ATEX approved accessories.
Alternatively ATEX approved accessories in compliance with the accessory connector ATEX specification may be used.
4. Do not change accessories in wet or humid environments.
5. Do not charge the battery in hazardous area.
6. For charge of battery use
Part no: 403505A - ATEX CH3505 Compact Charger,
Part no: 403507B - ATEX CH3507 Single Position Charger or
Part no: 403508B - ATEX CH3508 Dual Position Charger
7. Use only battery type SAILOR B3503, B3504 or B3906.
8. Do not use a mechanically damaged radio.
9. Unpacking of the radio and accessories and the removal of the protective film in front of the display window must not take place in the ATEX protected area.

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -