



# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAA00002CY**  
Revision No:  
**1**

## This is to certify:

that the **Test and Calibration Equipment**

with type designation(s)

**Temperature calibrators T375-M, T650-M**

issued to

**Eurotron Instruments UK Ltd.**

**Daventry, United Kingdom**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application:

**The instruments are only approved as portable temperature test- and calibration instruments.**

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

Issued at **Høvik** on **2024-04-11**

for **DNV**

This Certificate is valid until **2024-06-12**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Martin Skårerverket**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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 300,000 USD.



Form code: TA 251

Revision: 2023-09

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## Product description

Temperature calibrator:	<b>T375-M</b>
Temperature range:	Ambient+10°C to 375°C
Display accuracy:	±0.25°C at 150°C (Pt100 probe Ø6 mm) ±0.50°C at 375°C (Pt100 probe Ø6 mm)
Stability:	±0.15°C (Pt100 probe Ø6 mm)
Display accuracy:	±0.25°C at 150°C (Pt100 probe Ø3 mm) ±0.50°C at 375°C (Pt100 probe Ø3 mm)
Stability:	±0.10°C (Pt100 probe Ø3 mm)
Temperature calibrator:	<b>T650-M</b>
Temperature range:	Ambient+15°C to 650°C
Display accuracy:	±0.90°C (TcN probe Ø4.5 mm)
Stability:	±0.30°C (TcN probe Ø4.5 mm)

## Application/Limitation

The Type Approval covers hardware listed under product description.  
The instruments are only approved as portable temperature test- and calibration instruments.  
The calibrator must hold a valid calibration certificate to be used in conjunction with the E0 notification.

## Tests carried out

- Relevant EMC tests according to EN 61326-1:2020, with immunity test level for equipment intended to be used in an industrial electromagnetic environment, and emission limits for Class B equipment (domestic establishments).
- Relevant tests according to EN 62233:2008 (Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure).
- Relevant tests according to EN 61010-1:2010-10 (Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements).
- T650-M temperature stability and accuracy tested at 650°C for 24 hours against reference instrument.

## Marking of product

Brand name:	EiUK
Model name:	T375-M or T650-M
Serial No.:	Unique
Power rating:	115/230 Vac, 50/60 Hz

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

## Place of manufacture

DNV ID: 10097778



Job ID: **262.1-011913-6**  
Certificate no.: **TAA00002CY**  
Revision No: **1**

## Type Approval documentation

(hidden)

Data sheet: PYROS 375/650, Doc.No. DPYROSD-E-07/12  
User manual: PYROS 650-PYROS 375 Rev.4 dated 02-2024  
Test reports: INTEK Doc.No. RP 2012-0102-01 Rev.01 dated 2013-10-21  
INTEK Doc.No. RP 2012-0103-00 Rev.00 dated 2012-07-09  
INTEK Doc.No. RP 2012-0104-00 Rev.00 dated 2012-07-09  
INTEK Doc.No. TR 2023-0184-00 dated 2023-09-01  
INTEK Doc.No. TR 2023-0350-00 dated 2023-10-06  
Basis Certificate: TAA00002BJ