



# TÜRK LOYDU

## TYPE APPROVAL CERTIFICATE

This Certificate consists of 2 pages.

This is to certify that the

DIGITAL INCLINOMETER

With type designations

E-PENDULUM

Manufactured by

Medeci Den. Müh. Göz. Dan. San. ve Tic. Ltd. Şti.

Is found to comply with

IMO RESOLUTION a.749(18) Annex 1 - 2.6 Inclinometers

- Application** : Inclining Experiments For Marine Vehicles
- Design** : Medeci Den. Müh. Göz. Dan. San. ve Tic. Ltd. Şti.
- Sizes** : Angle measurement with measurement uncertainty  $U= 0.003^0$   
Draft Distance with measurement uncertainty  $U= 1$  mm
- Address of Manufacturer** : Dokuz Eylül Üniversitesi Tınaztepe Yerleşkesi DEPARK  
Alfa Binası Kuluçka Ofisi-5 Bodrum Kat – Buca - İZMİR
- Place and date** : İSTANBUL/ 09.02.2017

**Subject to the conditions referred to in the following pages, this certificate is valid until 11.01.2022**

  
**Emrah SÖĞÜTÇÜ**  
New Building Division Manager

  
**Haluk ÇOBAN**  
Surveyor



**Product description** : Digital inclining experiment

**Type Designation** : E-pendulum

**Materials used** : Digital inclining experiment system  
Digital inclinometer sensor with wi-fi module  
Ultrasonic draft measurement sensors with wi-fi module  
Main touchpad panel

**Application/ Limitation (Approval conditions):**

- Inclinometer measurement devices should be calibrated separately
- E-pendulum should send report files electronically via e-mail.
- Manufacturer must inform TL about any change in sensor

**Documentation :**

- Test reports for inclinometer and draft sensor.
- Calibration reports

**Test carried out (and results) :**

- Measurement control for both angle and distance sensors.

**Place of test carried out** : Dokuz Eylül Üniversitesi Tınaztepe Yerleşkesi DEPARK  
Alfa Binası Kuluçka Ofisi-5 Bodrum Kat – Buca - İZMİR

**Marking of product:**

E-Pendulum



**Haluk ÇOBAN**  
Surveyor

This certificate is valid if retention/renewal surveys carried out to the satisfaction of TL surveyor and following entries made:

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Surveyor	Surveyor	Surveyor	Surveyor
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Survey Date	Survey Date	Survey Date	Survey Date

This certificate is subject to terms and conditions described below.  
Any significant change in design or construction may render this Certificate invalid. Type Approval Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to the equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.