

## TC65 Temperature Calibrator



CE

Contemporary design to meet the future challenging measurement requirements

# A leading supplier

IKM Instrutek AS was established in 1985 and has become a leading supplier for calibration of instruments.

As a cooperating partner that focuses on quality, product range and technical expertise we ensure to meet the requirements from our valued customers.

We provide products and services to the industry, shipping, offshore and the public sector. Our expertise lies within process, test- and measuring instruments, navigation, communication and condition monitoring, divided between 3 departments.

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## *A part of the IKM Group*

IKM Instrutek is part of the IKM Group - a multidiscipline subsupplier focusing primarily on the oil and gas industry. The IKM Group conducts business within the following five areas: Electrical/Instrument/Process, Subsea/Completion/Commissioning, Engineering/Operations, Fabrication/Inspection and Rig/Downhole Services.

Focus on Growth is always the goal, and IKM's ambition is that even the most demanding customer shall choose IKM as their preferred business partner. All IKM companies are ISO-certified, and through internal revisions, audits, and continuous monitoring. IKM Corporate Group ensures that it meets and exceeds the needs of its customers and employees with respect to quality, health, safety and the environment.



# 3 years calibration interval

We are proud to introduce our brand new calibrator with touch display and a calibration interval up to 3 years. One of the important goals of developing a new product was to meet the market requirements to save cost by extending the calibration interval.

With a contemporary design, it is developed to meet the toughest demands of environments.

The unit is compact and robust designed for marine, industrial and laboratory use, approved according to DNVGL-CG-0339:2019 (Parts of). This ensures you to be able to calibrate a vast range of temperature sensors, thermometers and temperature switches/thermostats.

Since 2003 the predecessor TC65M has shown that the quality and lifetime of the product has been in the upper class. Our goal has been that the new TC65 is better, more cost effective and up to date compared to the expired product.

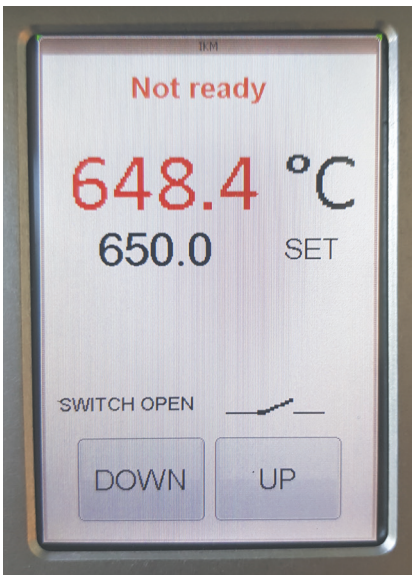
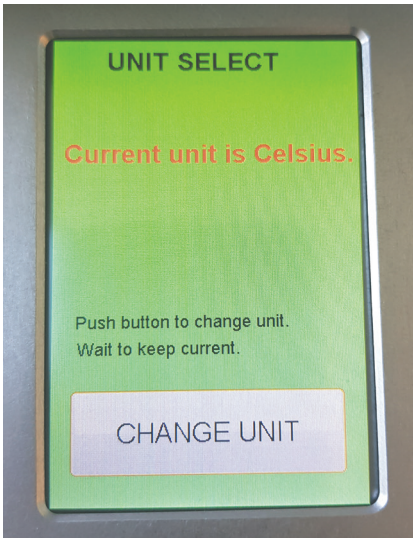


# New graphical user interface

New graphical user interface (GUI). TC65 has got touch display, no buttons anymore! The text will guide you through the easy to use procedure such as toggling between reading in °C or °F.

When temperature rises the digits are red, when cooling they are blue, and when stable the digits are green. In addition stable state is clearly shown in text on the GUI.

Switch test is shown as a open/closed switch symbol as well as described in text. The new GUI covers the basic functions, but opens a new world for future development.



# Technical information



## TC65 are calibrated using a 6,5mm insert

New inserts should be temperature cycled to 650°C 3 times (burn in) before use. A wide range of optional inserts available on request.

## Standard inserts TC65

- Ø 6,5 mm (1/4")
- Undrilled

## Technical information

Temperature range	30 to 650°C
Resolution (display)	0,1°C
Accuracy 1 year	±1,5°C
Accuracy 3 years	±3,5°C
Stability	±0,1°C
Axial gradients (Euramet/cg-13/v.3.0)	±3°C
Heating time to max	14 min.
Cooling time	40 min. (650°C to 100°C)
Thermostat test	Yes
USB	Yes
Well depth	155 mm
Well diameter	26 mm
Power supply	230 VAC, 50/60 Hz 120 VAC, 50/60 Hz
Power consumption	1600 Watt
Operating temp.	0 to 40°C
Dimension	117 x 300 x 245 mm
Weight	Approx. 5,5 kgs

The dry block principle excludes the use of oil or other liquids. A dry block insert with various diameters ensure thermal contact to the sensor being tested.

Simply place the to be calibrated sensor in the calibrator. Set the temperature. When stabilisation occurs, read the true temperature from the calibrator and re-calibrate the sensor or system accordingly.

Easy to use and read with the brand new touch screen.



# Marine test cases

For many years we have offered a maintenance scheme with regular summoning of our customers Marine test cases, which contains a calibration kit, including a pool of re-certified test cases, ready to be shipped to our customers wherever they are located around the world. This includes certified and traceable calibration.

The standard Marine Test Case, (the new MTS-500M and the predecessor MTS-500), covers the minimum E0 requirements according to SOLAS.

We also offer our custom made suitcases to suite their required needs for extended instruments that needs to be summoned for regular calibration.

### **This is mainly instruments within;**

- Pressure
- Temperature
- Electrical
- Gas



# High accuracy and stability

IKM Instrutek calibrators - have been designed to maintain high accuracy and stability under the most severe conditions. The portable calibrators are used on offshore rigs and by leading ship owners world-wide.

## **True calibration - no simulation**

The calibrator generates true temperature reference.

## **Calibration standard**

Each calibrator supplied by IKM Instrutek is calibrated against precision equipment, which is traceable to national standards, each unit is supplied with calibration certificate.

## **TC65 calibrator**

Will fulfill requirements in connection with quality assurance programs as well as requirements from classification societies.

## **Portable**

Low weight and compact design makes the calibrators ideal for "on site" calibration.

