

# TC-600



## Temperature calibrator for equipment test and control



Vimex temperature and pressure calibrators have been designed for calibration of instruments on-board ships. This will enable ship owners to comply with SOLAS (Safety Of Life At Sea) and ISM (International Safety Management) regulations for maintenance standards, as adopted by IMO.

Regulations apply to all marine vessels, including naval ships and mobile offshore drilling units.

Operational safety depends on continuous monitoring and accurate measurements of crucial machinery and instrumentation on-board the vessel. Our high-precision calibrators are reliable and easily operated.



As the calibrators are portable, there is no need for ship instruments to be removed from their equipment boards, thereby reducing the risk for measuring errors and equipment damage.

- Safe and easy to operate and handle
- High precision and durability
- Well known for reliability
- Norsk Analyse provides replacements
- Supply and service facilities in major ports
- Type approved by DNV



## Temperature calibrator description

Our TC-600 temperature calibrator is used for calibration checks on for example thermometers, thermostats and thermocouples.

The TC-600 is a compact unit that is easy to transport for in-situ inspections of on-board instruments. Inspection is performed by comparing the temperature measured in the instrument with the reference temperature of the internal calibrator bath of the TC-600. The instrument is then simply recalibrated according to the true temperature displayed.

The unit contains an electrically controlled metal block mounted in heat insulated housing.

The dry block design eliminates the need for oil or other liquids.

The metal block is equipped with a single 26 mm diameter heating well for insertion of the probe. Inserts with different probe diameters can be used. The standard supply includes two

inserts with diameter 6.5 mm and 17 mm, but other dimensions are available on request.

A digital controller is used to set the required temperature. The current temperature and the set temperature are presented on the front LED display.



## Technical specifications

- Range: +50 °C to 650 °C
- Accuracy:  $\pm 1.5$  °C
- Stability:  $\pm 0.75$  °C
- Display resolution: 0.1 °C
- Heating time to 650 °C: 17 min
- Cooling time: 45 min
- Safe dry calibration (no liquids)
- Well diameter: 26 mm
- Well depth: 155 mm
- Probe insert diameter: 6.5 and 17 mm (standard)
- Other diameters available on request
- Width: 125 mm
- Depth: 260 mm
- Height: 310 mm
- Weight: Approximately 6 kg
- Power supply: 230/115 VAC, 50 Hz
- Power consumption: 1.85 kW

## Related documents

- (D)PC-series pressure calibrators datasheet (VIMEX-E-DSH-025)
- Equipment for portable measurements datasheet (VIMEX-E-DSH-026)

*Please note that datasheet specifications are subject to change without prior notice!*