



# KLINGER DENMARK SERVICE

Recalibration of Marine Calibrators

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## RECALIBRATION OF MARINE CALIBRATORS

On every ship there is a need for equipment for calibration of temperature and pressure gauges. A set of calibration devices has to be included in the service package for the ship to fulfill the demands from the insurance company. The calibration devices should be recalibrated at least once a year to ensure they are working properly.

As an authorized SIKA calibration service partners, Klinger Denmark can, as part of an international network, offer to come on board your ship and recalibrate your equipment while the ship is in port, or you can choose to send your equipment to us, then we will perform the task in our own service workshop.

## RECALIBRATION OF TEMPERATURE CALIBRATORS

We test your Temperature Calibrator up to max. 650°C.

We will make the test in 5 points equally distributed over the temperature range - we perform a stepwise increasing of the temperature, with a rest time of min. 5 minutes at each test point, in order to ensure a stable temperature. At each measurement point we compare with the value of our own reference equipment, and based on the results we create a certificate where both the measured value and the reference value appears.

Are your Temperature Calibrator not within the specifications we have the ability to adjust the calibrator to meet the specifications again. If this is not possible we will contact you with a proposal for getting your equipment "in place" again.

We offer this service for the following temperature calibrators:

- SIKA model TP 17xxx, TPM xxx and TP 18xxx
- GE model Dry TC165, TC650 Dry, Liquid TC165 and TC255 Liquid
- Testo model Thermator
- WIKA model CTD 9100, CTM 9100 and CTB 9100
- GMS Instruments



## RECALIBRATION OF PRESSURE CALIBRATORS

We test your pressure reference with air up to max. 40 bar.

We will make the test in 5 points equally distributed over the area – we perform the test once for increasing pressure and once by decreasing pressure. At each measurement point we compare with the value of our own reference equipment, and based on the results we create a certificate where both the measured value and the reference value appears.



Does your pressure reference not meet specifications we will contact you with a proposal for how you can get your equipment "in place" again.

In addition, the recalibration we will:

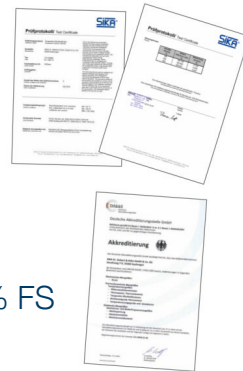
- Check your pump functionality.
- Replace defect gaskets and valves on the pump.
- Check and replace defective hoses.

## OUR REFERENCE EQUIPMENT

For recalibration, we use accredited equipment approved and traceable acc. to the requirements that apply to be part of the network.

We use the following equipment:

- SIKA Hand held instrument MH 3750 with Temperature Reference Sensor TF 650-6-300 Linearized in the range 0 ... 650grC, accuracy 0.03% FS
- SIKA Pressure Reference type D2 Measuring range 0 ... 40 bar, accuracy 0.1% FS



You may at any time request the last certificates for our equipment.